

# भारत का राजापत्र

## The Gazette of India

प्राधिकार से प्रकाशित

PUBLISHED BY AUTHORITY

सं. २२] नई दिल्ली, शनिवार, जून १, १९८५ (ज्येष्ठ ११, १९०७)

No. 22] NEW DELHI, SATURDAY, JUNE 1, 1985 (JYAIKTHA 11, 1907)

इस भाग में भिन्न पृष्ठ संख्या दी जाती है जिससे कि यह अलग संकलन में रूप में रखा जा सके  
 (Separate paging is given to this Part in order that it may be filed as a separate compilation)

### भाग III—खण्ड २

#### [PART III—SECTION 2]

पेटेन्ट कार्यालय द्वारा जारी की गई पेटेन्टों और डिजाइनों से सम्बन्धित अधिसूचनाएं और नोटिस

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APPLICATION FOR PATENT FILED AT THE HEAD  
OFFICE 214, ACHARYA JAGADISH BOSE ROAD,  
CALCUTTA-17

The dates shown in crescent brackets are the dates claimed under Section 135, of the Act.

25th April, 1985

313/Cal/85. Pravin Laljibhai Wadhwana. Robbing Holder.

314/Cal/85. Patan Singh. Maximum Demand Electric Meter.

26th April, 1985

315/Cal/85. Preh, Elektrofeinmechanische Werke. Diode Connector. Jakob Preh, Nachf. GmbH & Co.

316/Cal/85. Sunil Daseunta. Automatic Sage Arresting Device.

317/Cal/85. Euroceltique, S. A. Iodophor Composition.

318/Cal/85. E I Du Pont De Nemours and Company. Apparatus for Conveying Crimped Tow.

319/Cal/85. Vickers Incorporated. Power Transmission.

27th April, 1985

320/Cal/85. Vickers Incorporated. Power Transmission.

321/Cal/85. Fried Krupp Gesellschaft Mit Beschränkter Haftung. Cable Hoisting Mechanism of a Crane.

322/Cal/85. Thermo King Corporation. Improvements in or relating to refrigerant suction accumulator especially for transport refrigeration unit.

323/Cal/85. Linearaj Patnaik. Wave-Pump for Fluids.

324/Cal/85. Nederlandse Centrale Organisatie Voor Toegepast Natuurweten Schappelijk Onderzoek. Solid substrate which consists at least partially of a biologically or chemically active substance and is coated with or (meth) acrylic polymeric network, as well as a process for providing said coated substrate.

29th April, 1985

325/Cal/85. John W. Evans. Process and apparatus for cooling internal combustion engines.

30th April, 1985

326/Cal/85. Mr Bimal Kumar Chakrabarty and Mr. Manotosh Bhakta. Micro Sense Railway Signal lamp Focussing Device.

327/Cal/85. Siemens Aktengesellschaft. A three-phase or other multiphase bar wave winding for a P-pole paired Electrical machine with N slots.

328/Cal/85. Federal-Mogul Corporation. Bearing material and method of making polyd based tape suitable for impregnation into a porous metal matrix of the bearing material.

329/Cal/85. Combustion Engineering, Inc. Highly Abrasive resistant material.

330/Cal/85. The Babcock & Wilcox Company. Shut off/ equalizing valve with molded seals.

331/Cal/85. Rudy Melvin Bowers. Rod coupling for oil well sucker rods and the like.

APPLICATION FOR PATENTS FILED AT THE PATENT  
OFFICE BRANCH, MUNICIPAL MARKET BUILDING,  
3RD FLOOR, KAROL BAGH, NEW DELHI-5

8th April, 1985

288/Del/85. Pfizer Inc. "N, 3-disubstituted 2-oxindole-1-carbo-xamides as analgesic and antiinflammatory agents".

289/Del/85. White Consolidated Industries, Inc. "Erosion resistant soft seated valve trim".

290/Del/85. President Engineering Corp. "Process for producing metal laminated base material for printed circuit boards".

291/Del/85. Imperial Chemical Industries PLC. "Ammonia synthesis". (Convention date April 25, 1984) (U.K.).

292/Del/85. Hughes Aircraft Co. "Thermally actuated rocket motor safety system".

293/Del/85. American Flange & Manufacturing Co. Inc. "Container closure".

294/Del/85. Mardon Illingworth Ltd. "Injection moulding method and mould". (Convention date April 19, 1984) (U.K.).

295/Del/85. Abrasivos De Espana, S.A., "Apparatus for installing a grindstone".

9th April, 1985

296/Del/85. Avery International Corporation. "Removable labels".

297/Del/85. Westinghouse Brake and Signal Co. Ltd. "Electric actuators". (Convention date May 15, 1984) (U.K.).

298/Del/85. ICI Australia Ltd. "Compositions". (Convention date April 19, 1984) (Australia).

299/Del/85. Shell Internationale Research Maatschappij B.V. "Pesticidal benzoylurea compounds". (Convention date April 10, 1984 & August 17, 1984) (U.K.).

300/Del/85. The Babcock & Wilcox Co. "Insert for insulated steam injection tubing".

10th April, 1985

301/Del/85. Norman Trevor Brint. "Firing mechanism".

302/Del/85. Gennady Yakovlevich Potemkin. "A tool for machining holes".

303/Del/85. Gennady Yakovlevich Potemkin. "Drill".

304/Del/85. Vam Organic Chemicals Ltd. "Process for the preparation of perfume-immobilized polymer films".

11th April 1985

305/Del/85. Reliance Electric Company. "Elastomeric shear shaft coupling".

306/Del/85. Bharat Heavy Electricals Ltd. "A process for preparing myrobalan based paints". [Divisional date October 19, 1981].

APPLICATIONS FOR PATENTS FILED IN THE PATENT OFFICE BRANCH AT TODI ESTATES  
3rd FLOOR, SUN MILL COMPOUND, LOWER FAREL, (W), BOMBAY-400 013

1	2	3
23-3-1985		
74/Bom/85	Vishwas Vishwanath Deshmukh . . . . .	Solar Water heater cum Roof
25-3-1985		
75/Bom/85	Sri Ananteshwar Parama-Research Foundation . . . . .	A common process preparing some notable therapeutically active Ayurvedic plant-based medicinal liquers (Ayurvediya Aashadhi Madya), as described in Ancient Ayurvedic scriptures.
27-3-85		
76/Bom/85	Pradeep Sinha . . . . .	A device for removably or detachably mounting at least one panel and a configuration or arrangement of panels formed by using the same.
77/Bom/85	Harishchandra Kesrinath Mhatre, 'Kanchan Harishchandra Mhatre . . . . .	Improvements in or relating to plate heat-exchanger.
28-3-85		
78/Bom/85	Vadakkedath Pavithran Nambiar & Guruvayr Krishna Iyer Narayanan . . . . .	A 3D stereo vision attachment device for a colour television receiver which has RGB drive.
79/Bom/85	Kabelschlepp GmbH . . . . .	Energy Transmission Chain.
1-4-1985		
80/Bom/85	Iqbal Krishna Bharati . . . . .	A reactor for use with vehicles.
2-4-1985		
81/Bom/85	Milind Gajanan Watve . . . . .	Manufacture of microbiological media tablets.
2-4-1985		
82/Bom/85	Trichur Shankar Ramchandran & Vasant Rao-Indolkar . . . . .	A modulated frequency Amplifier.
83/Bom/85	Do. . . . .	Ultra Sound Generator.
4-4-1985		
84/Bom/85	Iqbal Krishna Bharati . . . . .	A reactor Device.
6-4-1985		
85/Bom/1985	Elektrameric systems Pvt. Ltd. . . . .	Improvements in or relating to motor control circuits.
86/Bom/1985	Yissum Research Development Company . . . . .	Process of making ring Halogenated styrenes.
87/Bom/1985	Hans Ching-Long Huang . . . . .	Eccentric twin-bearing cam orbiting device.
88/Bom/1985	Do. . . . .	Monitoring system to Detect absence of weft yarn in a circular weaving machine.
89/Bom/1985	Kabelschlepp GmbH . . . . .	A guide chain for guiding feed lines from a stationary connection to a movable consuming device.

## APPLICATIONS FOR PATENTS FILED AT THE PATENT OFFICE BRANCH, 61, WALLAJAH ROAD, MADRAS-600 002

15th April, 1985

282/Mas/85. Stuffer Chemical Company. Embryogenic callus and cell suspension of inbred corn.

283/Mas/85. Honda Giken Kogyo Kabushiki Kaisha. Process for manufacturing molds and molds made thereby.

284/Mas/85. Honda Giken Kogyo Kabushiki Kaisha. Material sheet for metal sintered body and method for manufacturing the same and method for manufacturing metal sintered body.

285/Mas/85. Honda Giken Kogyo Kabushiki Kaisha. Method for preparing a sliding face of a machine tool

286/Mas/85 Saint-Gobain Vitrage. Method and apparatus for spraying a reaction mixture capable of forming a transparent protective layer of high optical quality.

287/Mas/85. Ludwig Wenker. An internal combustion engine.

16th April, 1985

288/Mas/85 R. N. P. Arogyaswamy &amp; S. Narayana Moorthy. Mechanics sledge—an equipment to aid mechanics working under chassis of vehicles.

289/Mas/85 Framatome &amp; CIE. Method and installation for processing a material in a circulating fluidized bed

290/Mas/85. International Standard Electric Corporation. Communication system line expansion apparatus and method

17th April, 1985

291/Mas/85. C. Ramchandran. An improved vertically anisomorphically reduced half frame method for making motion picture film

292/Mas/85. Mobil Oil Corporation. A method of activating a crystalline aluminum phosphate and use of the activated product in hydrocarbon cracking.

293/Mas/85. Snamprogetti S.p.A. Process for the synthesis of urea and material used in it.

294/Mas/85. Jeumont-Schneider. Thermal compensation procedure for a magnetic circuit.

295/Mas/85. Framatome &amp; Cie. Process for circulating solid particles within a fluidization chamber and an improved fluidisation chamber for carrying out the process.

18th April, 1985

296/Mas/85 LeRoy G Hagenbuch. Apparatus and method responsive to the on-board measuring of the load carried by a truck body.

297/Mas/85 Institut Francais Du Petrole. Method for the preparation of clefin polysulfides, the products obtained and their utilization as lubricant additives.

298/Mas/85 Institut Francais Du Petrole. Micellar systems containing N-Acyl N-AlkyAlpha-Aminocarboxylic compounds, particularly useful in enhanced hydrocarbon recovery.

19th April, 1985

299/Mas/85 W. L. Gore &amp; Associates, Inc. Semipermeable membrane.

20th April 1985

300/Mas/85. Saab Marine Electronics Aktiebolag. Method and apparatus for measuring the level of fluent material in a container.

301/Mas/85 N.I.I. po Cherna Metalurgia. Double-cone Double-cone mill crusher.

302/Mas/85. Babcock-Hitachi Kabushiki Kaisha. System for measuring thermal stress of pressure-tight tube

## ALTERATION OF DATE

156203. Ante dated to 16th January, 1980.  
(485/Cal/83)

## COMPLETE SPECIFICATION ACCEPTED

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CLASS : 6 B.

156146

Int. Cl. F25c 1/02.

## AN APPARATUS FOR PRODUCING BRICK SHAPED DRY ICF FROM LIQUID CARBON DIOXIDE.

Applicant : IWATANI SANGYO KABUSHIKI KAISHA, OF 1, 4 CHOME HOMMACHI HIGASHIKU, OSAKA, JAPAN

Inventors : 1. NAOTAKE UMINO, 2. TATSUO FUJIDA

Application No. 1436/Cal/81 filed December 21, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules 1972) Patent Office, Calcutta.

## 12 Claims

Apparatus for producing bricks of dry ice from liquid carbon dioxide comprising a charging mould disposed over a pressing mould with a shutter interposed between an outlet opening at the bottom of the charging mould and an inlet opening at the top of the pressing mould and capable of

shutting both openings simultaneously, the charging mould having an injection nozzle for spraying liquid carbon dioxide into its upper part of form dry ice snow, and the pressing mould having a pressing block drivable upwardly to compress the dry ice into a brick, wherein the shutter has a forward face for pushing out a formed brick and an auxiliary shutter extending beyond the forward space from the upper edge thereof and the shutter is movable between three positions in the first of which both the inlet and outlet opening are closed and a brick can be compressed in the pressing mould while dry ice is being formed in the charging mould, in the second of which the outlet is closed by the auxiliary shutter while the inlet is open for ejection of a brick from the pressing mould, and in the third of which the outlet and inlet are open for the transfer of dry ice from the charging mould to the pressing mould.

Compl. specn. 14 pages.

Drg. 3 sheets.

CLASS 129-Q

156147

Int. Cl. : B 23 k 9/00.

#### IMPROVED WELDING APPARATUS.

Applicant . INDIAN OXYGEN LIMITED. OF OXYGEN HOUSE, P 34 TARATALA ROAD, CALCUTTA-700 088, WEST BENGAL, INDIA.

Inventor : KALIDA BANERJEE.

Application No. 40/Cal/82 filed January 8, 1982.

Complete Specn. left on 21-1-1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 7 Claims

An improved welding apparatus including a transformer, a remote current control device and a low voltage safety device, said transformer and said low voltage safety device being arranged or connected in a manner as depicted in the accompanying drawing so as to be actuated by said remote current control device.

Compl. specn. 10 pages.

Drg. 1 sheet.

Provisional specn. 6 pages.

CLASS : 147-C & E

156148

Int. Cl. : G 11 b 11/00.

#### CASSETTE FOR DISPENSING ADHESIVE ITEMS FOR JOINING TOGETHER TAPE LIKE MATERIAL SUCH AS MAGNETIC RECORDING TAPE.

Applicant & Inventor : STEPHEN COLLINS, OF 5 TEMPLAR STREET, LONDON SE5 ENGLAND.

Application No. 249/Cal/82 filed March 3, 1982.

Convention dated 14th March, 1981 (8108095) U.K.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 7 Claims

A cassette for dispensing adhesive items mounted on a carrier support strip said cassette comprising a housing (22) including :

a chamber (51) for receiving the carrier strip in roll form;

means (54, 55) defining a delivery passage (52) of elongate section through which the carrier strip emerges during use; and

means (55) defining an edge (58A) adjacent the delivery passage exit against which the carrier strip can be drawn whereby the adhesive items are separated from the support carrier strip, characterised in that the housing includes a curved portion (58) adjacent the delivery passage exit and transverse or the carrier so as to present a pressure differential to the emerging support carrier and adhesive items so as to extend and control the attitude of said items; and

contact means (56) provided to ensure that the carrier strip conforms to the curvature provided by said curved portion.

Compl. specn. 20 pages.

Drg. 5 sheets.

CLASS : 42-C

156149

Int. Cl. : A 24 f 7/04.

#### IMPROVED CIGARETTE FILTER.

Applicant : BROWN & WILLIAMSON TOBACCO CORPORATION 1600 WEST HILL STREET, LOUISVILLE, KENTUCKY, U.S.A.

Inventor : 1. DANIEL VERDIN CANTRELL.

Application No. 507/Cal/82 filed May 5, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-5.

#### 6 Claims

A filter in combination with a cigarette tobacco column comprising :

a first porous filter element of cylindrical configuration having a longitudinally extending first hollow tube extending from end to end, said first filter element being circumscribed by a non-porous wrapping material; and a chamber disposed between said first filter element and said tobacco column including means to introduce ventilating air into said chamber, means to direct ventilating air into said hollow tube, and means to direct smoke from the tobacco column into said filter without mixing with said air, said combination including a second filter element as herein described disposed between said chamber and said tobacco column whereby tobacco smoke is filtered prior to entering means to direct smoke from the tobacco column into said filter element.

Compl. specn. 11 pages.

Drgs. 3 sheets.

CLASS : 36-B<sub>2</sub>

156150

Int. Cl. : F 04 c 3/00.

#### A VOLUMETRIC MACHINE WITH SCREW AND PINION WHEELS.

Applicant & Inventor : BERNARD ZIMMERN OF 27 RUE DALABORDERE 72200 NEUILLY SUR SEINE, FRANCE.

Application No. 595/Cal/82 filed May 24, 1982.

Complete specification dated left on 17th December, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-5.

#### 11 Claims

A volumetric machine for compressing, pumping or expanding a fluid, comprising a screw adapted to cooperate with a casing in substantially fluid-tight manner by means of at least part of the screw-thread crests, at least one pinion-wheel which is disposed in passageway within the casing and the teeth of which are adapted to engage with the screw threads, at least one low-pressure port located at one end of the screw and at least one high-pressure port located at the other end of the screw and separated from the pinion-wheel passageway by a casing zone of predetermined

width, wherein one of the two cooperating surfaces respectively of the casing and of the screw is provided with a number of cells at least on part of the area of cooperation of said surface with the other and wherein the periphery of each cell carried by a thread crest or by the casing in a position to cooperate with the thread crests is at most cut by only one of the two edges of a thread crest carrying or facing said cell.

Compl. specn. 19 pages.

Drg. 3 sheets

Provisional specn. 13 pages.

Drg. 2 sheets.

CLASS : 169B<sub>1</sub>

156151

Int. Cl. : F 41 f 11/00.

#### IMPROVEMENTS IN OR RELATING TO BREECH MECHANISMS.

Applicant : THE SECRETARY OF STATE FOR DEFENCE IN HER BRITANNIC MAJESTY'S GOVERNMENT OF THE UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND OF WHITEHALL, LONDON SW1A 2HB, ENGLAND, A BRITISH CORPORATION SOLE.

Inventor : GLYNDWR THOMAS SAMUEL.

Application for Patent No. 947/Del/79 filed on 27th December, 1979.

Convention date 31st January, 1979/7903300 (U.K.).

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

#### 6 Claims

A gun having an axial breech aperture and a breech mechanism including :

a guideway having an axis disposed transverse to and adjacent the breech aperture,

a breech block slideable in the guideway and having a drive portion and an obturator portion interlinked by at least one articulated linkage arm, which two portions are mutually engageable at a stepped interface in two distinct engagements, one being a breech open engagement and the other a breech closed engagement, differing one from the other by a one-step displacement of the interface, and

cam means operative between the obturator portion and the guideway for constraining the obturator portion, when the drive portion is traversed in the guideway, to follow a part-arcuate path aligned at one end with the axis of the guideway and at the other with the axis of the gun barrel, whereby the obturator portion is caused to change from one to the other of the said two engagements with the drive portion.

Compl. specn. 10 pages.

Drg. 3 sheets.

CLASS : 144 A, E<sub>2</sub>, 6

156152

Int. Cl. : C 09 d 5/00.

#### A PROCESS FOR THE PRODUCTION OF A MULTI-LAYER PROTECTIVE AND/OR DECORATIVE COATING UPON A SUBSTRATE SURFACE AND A SUBSTRATE SO COATED.

Applicant : IMPERIAL CHEMICAL INDUSTRIES PLC., FORMERLY KNOWN AS IMPERIAL CHEMICAL INDUSTRIES LIMITED, OF IMPERIAL CHEMICAL HOUSE, MILLBANK, LONDON SW1P 3JF, ENGLAND, A BRITISH COMPANY.

Inventor : ALAN JAMES BACKHOUSE.

Application for Patent No. 180/Del/81 filed on 30th March, 1981.

Convention date 14th April, 1980/8012199/(U.K.).

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

#### 18 Claims

A process for the production of a multi-layer protective and/or decorative coating upon a substrate surface of the kind such as herein described which comprises the steps of :—

- (1) applying to the surface a basecoat composition comprising (a) film-forming material of the kind such as herein described, (b) a volatile liquid medium of the kind such as herein described for the said material and (c) pigment particles of the kind such as herein described dispersed in the said liquid medium, the said basecoat composition containing from 5% to 80% by weight of polymer microparticles of the kind such as herein described, based on the total non-volatile content of the composition,
- (2) forming a polymer film upon the surface from the composition applied in step (1);
- (3) applying to the basecoat film so obtained a transparent topcoat composition comprising (d) a film-forming polymer of the kind such as herein described and (e) a volatile carrier liquid of the kind such as herein described for the said polymer; and
- (4) forming a second polymer film upon the basecoat film from the composition applied in step (3), characterised in that the constituents (a) and (b) of the basecoat composition are provided by a dispersion in an aqueous medium of crosslinked polymer microparticles which have a diameter in the range 0.01 to 10 microns, are insoluble in the said aqueous medium and are stable towards gross flocculation, the dispersion having a pseudoplastic or thixotropic character.

Compl. specn. 50 pages.

CLASS : 102 D & 195 B

156153

Int. Cl. : F 15 b 13/02, 20/00.

#### SAFETY SYSTEM FOR A DOUBLE ACTING PRESSURE FLUID OPERATED SERVOMOTOR.

Applicant : SULZER BROTHER LIMITED, OF CH-8401 Winterthur, SWITZERLAND, A SWISS COMPANY.

Inventor : SAMUEL HEUSLER.

Application for Patent No. 248/Del/81 filed on 22nd April, 1981.

Convention date 30th May, 1980/353, 114/(Canada).

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

#### 2 Claims

A safety system for a double-acting pressure fluid-operated servomotor having a cylinder (2) and a piston (4) disposed in said cylinder; said piston (4) dividing said cylinder (2) into two cylinder chambers (I, II), whereby one of said cylinder chambers (I) decreases in volume when the other of said cylinder chambers (II) increases in volume as said piston (4) moves from a momentary position into a safety position; a shut-off valve (20) comprising a valve disc (23), said shut-off valve (20) being disposed in a line (12, 13, 30, 32) connecting the two cylinder chambers, in the event of a safety signal said valve disc (23) opens whereby said shut-off valve (20) connects the two cylinder chambers (I, II) together and the piston (4) moves into the safety position, said valve disc (23) being provided with a spool (24); a control valve (40) adapted to act on said safety signal and connected via a pressure medium line (37) to said spool (24); a pressure responsive selector (60) provided with two inlets (65, 66) and an outlet (61), one (65) of said two inlets being connected to said cylinder chamber (I) which decreases in volume when said piston (4) moves into said safety position, the other (66) of said two inlets being connected to a lower-pressure chamber, said outlet (61), being connected to said control valve (40), whereby said selector (60), always leads the higher pressure of the pressures acting at the two inlets (65, 66) to the outlet (61), characterised in that said other inlet (66) of said selector

(60) is connected to said other cylinder chamber (II) which increases in volume when the piston (4) moves into said safety positions and control valve (40) also being connected to said other cylinder chamber (II) which increases in volume when the piston (4) moves into the safety position and said control valve (40) connects the outlet (61) of said selector (60) with the spool (24) of said shut-off valve (20) when the safety signal is absent.

Compl. specn. 9 pages.

Drg. 1 sheet.

CLASS : 193, 48A<sub>4</sub>, 64A<sub>1</sub>

156154

Int. Cl. : H 02 g 15/00, 15/04; H 01 r 11/28.

**SEALING DEVICE FOR RENDERING FLUID TIGHT AN ENTRY POINT OF AN ELECTRICAL CABLE, WIRE OR CONDUCTOR TO AN ELECTRICAL APPARATUS.**

Applicant : COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, RAFI MARG, NEW DELHI-110001, INDIA, AN INDIAN REGISTERED BODY INCORPORATED UNDER THE REGISTRATION OF SOCIETIES ACT (ACT XXI OF 1860).

Inventor : SHANKAR PRASAD SHARMA.

Application for Patent No. 257/Del/81 filed on 25th April, 1981.

Complete specification filed on 9th July, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

**4 Claims**

A sealing device for rendering fluid tight an entry point of an electrical cable, wire or conductor to an electrical apparatus comprising an externally threaded cylinder with a central bore; said external threads adapted to be tightly in engagement with corresponding threads on an outer casing of the electrical apparatus; the internal extremities of said central bore being threaded with an intermediate portion of said bore being narrower than said internally threaded extremities but sufficient to permit passage of said electrical cable, wire or conductor therethrough; said intermediate portion of said bore being joined to said threaded extremities by slopes which slopes are seats for 'O' ring seals held in place tightly by and compressed against said electrical cable, wire or conductor by hollow nuts having tapered ends adjacent said seals; said nuts also having external threads which correspond to the internal threads of said cylinder.

Provisional specification 4 pages.

Compl. specn. 7 pages.

Drg. 3 sheets.

CLASS : 271 & 149D, 132C, 136-J

156155

Int. Cl. : B 06 b, 1/04, E 04 g, 21/16, 21/10  
E 04 f 21/06, E 02 d, 7/00, 3/00.

**A TROWEL VIBRATOR DEVICE FOR PRODUCING VIBRATIONS IN CIVIL ENGINEERING, CHEMICAL AND METALLURGICAL INDUSTRIES.**

Applicant : COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, RAFI MARG, NEW DELHI-110001, INDIA, AN INDIAN REGISTERED BODY INCORPORATED UNDER THE REGISTRATION OF SOCIETIES ACT (ACT XXI OF 1860).

Inventor : SULTAN SINGH JAIN.

Application for Patent No. 264/Del/81 filed on 30th April, 1981.

Complete specification left on 21st June, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

**3 Claims**

A trowel vibrator device for producing vibration in civil engineering, chemical and metallurgical industries comprising a spring loaded base plate of magnetic material provided with a ring projection on its periphery and supported by a frame, an electromagnet mounted on two threaded rods through the collars provided in the electro-magnet to effect vertical adjustment of an air gap between the base plate and the electromagnet to produce vibration on the passage of alternate current for effecting small compaction of the material to be vibrated, the above components being housed within a cover, mounted on the said frame and a handle mounted on the said frame for manual operation.

Provisional specn. 3 pages.

Drg. 3 sheets

Compl. specn. 7 pages.

Drg. 3 sheets.

CLASS : 72B, 32F<sub>2</sub>(.)

156156

Int. Cl. : C 06 b 9/00.

**PROCESS FOR THE PREPARATION OF 2, 4 DINOTRO CHLORO BENZENE.**

Applicant : THE CHIEF CONTROLLER, RESEARCH & DEVELOPMENT ORGANISATION, MINISTRY OF DEFENCE, GOVERNMENT OF INDIA, NEW DELHI, INDIA, AN INDIAN NATIONAL.

Inventors : RAMACHANDRA KASHIBA BHONGLE, KONDEPUDI UDAYA BHASKER RAO, SINGAPURAM RAGHAVACHAR YOGANARASIMHAN.

Application for Patent No. 279/Del/81 filed on 6th May, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

**2 Claims**

An improved process for preparing of 2, 4 dinitro chloro-benzene comprising (i) adding to concentrated sulphuric acid, concentrated nitric acid with stirring and maintaining the temperature of the acid mixture below 15°C, (ii) adding to said mixture 2-nitrochloro-benzene and slowly heating the mixture to 130°C and maintaining the temperature at 130°C for four hours or till escape of forms of oxides of nitrogen cease, (iii) cooling the mixture, (iv) draining off the upper layer of the mixture and adding the same to ice cold water with stirring (v) recovering granules of 2, 4 dinitro chlorobenzene and (vi) washing the said granules to free from acids and drying the granules.

Compl. specn. 5 pages.

CLASS : 119D.

156157

Int. Cl. : D03d 47/00.

**"IMPROVEMENTS IN OR RELATING TO ACTUATION DEVICE FOR THE DRIVE GEAR OF A WEFT THREAD CARRIER OF SHUTTLELESS LOOM".**

Applicant : AKTIENGESELLSCHAFT ADOLPH SAUER OF CH-9320 ARBON, SWITZERLAND, A SWISS COMPANY.

Inventors : GERHARD OESTERLE, HERMANN UNFRIED, WILLIBALD AUER AND RODOLF JAEGER.

Application for Patent No. 295/Del/81 filed on 11th May, 1981.

Appropriate Office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

**8 Claims**

An actuation device for a drive element of a weft thread carrier of a shuttleless loom which is guided by a gripper tape, comprising :

a crank drive;

a substantially slipless traction means-drive containing toothed belt;

a drive element operatively connected with the crank drive by means of the toothed belt of said substantially slipless traction means-drive;

a linearly guided slide drivingly connected for movement with the toothed belt;

said crank drive moving said linearly guided slide back-and-forth;

said traction-means drive further comprising :

a drive pulley drivingly connected for rotation with the drive element;

a tensioning pulley arranged in spaced relationship from said drive pulley;

said toothed belt of said traction means-drive being wrapped in an endless configuration about said drive pulley and said tensioning pulley;

guide means provided for said slide;

at least one run of said toothed belt extending essentially parallel to said guide means for said slide;

said slide being fixedly connected with said one run of said toothed belt;

the length of said one run essentially corresponding to the greatest spacing of reversal points of the slide and which govern the maximum insertion depth of the weft thread carrier into a shed of the loom, and

means for adjusting the spacing of the reversal points of the slide.

(Complete Specification 19 pages. Drgs. 2 sheets).

CLASS : 32F5(,).

156158

Int. Cl. : C07c 141|00. F16h 41|32

"A PROCESS FOR THE PREPARATION OF AN ADDITIVE FOR DRILLING FLUIDS".

Applicant : OIL AND NATURAL GAS COMMISSION, INSTITUTE OF DRILLING TECH., KAULAGARH ROAD, DEHRADUN, INDIA.

Inventors : ARVINDA KUMAR MITRA, SURENDRA MANI SHARMA, KANWAL KRISHAN GIRDHAR & SHAMBHU PRASHAD MAMGAIN.

Application for Patent No. 303|Del|81 filed on 15th May, 1981.

Complete specification left on 9th August, 1982.

Appropriate Office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

#### 10 Claims

A process for preparing an additive for drilling fluids which comprises the steps of dispersing lignite in sodium hydroxide liquor thereby to obtain a caustized lignite, treating the caustized lignite portion thereof with a reagent obtained from sodium bisulphite and formaldehyde so as to obtain a sulphomethylated lignite compound, drying the said sulphomethylated lignite and subjecting the compounds to the desired size reduction to obtain the additive.

(Provisional specification 3 pages).

(Complete specification 10 pages),

CLASS : 98 I & 146A.

156159

Int. Cl. : F24j 3|00.

"ORIENTATION MOUNT FOR A SOLAR HEATING MODULE".

Applicant : CRFUSOT LOIRE OF 42 RUE D' ANJOU, 75008, PARIS, FRANCE, A FRENCH COMPANY.

Inventor : BERNARD LHENRY.

Application for Patent No. 321|Del|81 filed on 21st May, 1981.

Appropriate Office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

#### 5 Claims

Orientation mount for a solar heating module, comprising a parabolic mirror reflector (11) orientatable on a turret (5) about a horizontal pivoting axle (13) by means of a jack having a bottom end and having its cylinder (63) articulated to said reflector and fast to a piston (65) which separates a first chamber (671) supplied with hydraulic liquid by a pipe (664) from a second chamber (672) containing hydraulic liquid and connected to a third chamber (681) containing hydraulic liquid and subjected to a pressurized gas, said jack comprising in said cylinder a fixed partition (66) separating said second and third chambers (672, 681), said piston (65) fast to a rod sliding between said partition and a passage flange of said rod and a sliding piston (69) located between said partition and said bottom end of said jack so as to separate said third chamber (681) and said pressurized gas, the flow of hydraulic liquid between said second and third chambers being controlled by a pilot check valve (662) piloted by hydraulic liquid from said pipe (664).

(Complete specification 10 pages.

Drgs. 2 sheets).

CLASS : 98E.

156160

Int. Cl. : F23c 3|00, 25|00, 11|00

"HEATER FOR HEATING A PROCESS FLUID".

Applicant : BS & B ENGINEERING COMPANY INC., A CORPORATION ORGANIZED AND EXISTING UNDER THE LAWS OF THE STATE OF DELAWARE, UNITED STATES OF AMERICA, OF 8303 SOUTH WEST FREEWAY, HOUSTON, TEXAS 77074, UNITED STATES OF AMERICA.

Inventors : GERARDUS ANTHONIUS AMARKUS.

Application for Patent No. 326|Del|81 filed on 22nd May, 1981.

Convention date 17th June, 1980|19825 (U.K.).

Appropriate Office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

#### 12 Claims

A heater for heating process fluids comprising an elongate main chamber, having longitudinal walls and end walls, at least one high intensity burner mounted to project its products of combustion into the main chamber in a direction transverse to the axis of the main chamber, an annular secondary chamber surrounding the longitudinal walls of the main chamber, a first set of heat exchanger tubes in the main chamber extending substantially parallel to the axis thereof and a second set of heat exchanger tubes in the secondary chamber extending substantially parallel to the axis thereof, the tubes of each set being laterally spaced to allow the products of combustion to flow therearound, at least one inlet to the secondary chamber from the main chamber and at least one fluid outlet from the secondary chamber positioned at a location opposite to the inlet from the main chamber.

(Complete Specification 12 pages.

Drgs. 2 sheets).

CLASS : 28C. 156161

Int. Cl. : F23d 13|00.

"FUEL REACTOR".

Applicant : BS & B ENGINEERING COMPANY INC., A CORPORATION ORGANIZED AND EXISTING UNDER THE LAWS OF THE STATE OF DELAWARE, UNITED STATES OF AMERICA, OF 8303 SOUTH WEST FREEWAY, HOUSTON, TEXAS 77074, UNITED STATES OF AMERICA.

Inventors : GERARDUS ANTHONIUS MARKUS.

Application for Patent No. 327|Del|81 filed on 22nd May, 1981.

Convention date 17th June, 1980|8019826 (U.K.).

Appropriate Office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

## 15 Claims

A fuel reactor comprising an elongate outer shell which is of generally circular cross-section in a plane transverse to its axis, the outer shell being closed at one end, a fuel inlet at said one axial end, an inner shell mounted within said outer shell to define an annular space therebetween, the inner and outer shells connected together at a discharge end of the inner shell, the other end of the inner shell being open and axially spaced from the closed end of the outer shell, a fuel inlet at said one axial end positioned to project fuel axially into said open end of the inner shell, a tangential combustion air inlet connected to the annular space at an axial location spaced from said other end of the inner shell, a discharge nozzle mounted within the discharge end of the inner shell and at least one opening in the inner shell, in the vicinity of the combustion air inlet and adjacent the discharge nozzle, and communicating with the annular space, to allow some of the air entering via said inlet to flow on to the exterior of the discharge nozzle to cool it.

(Complete Specification 15 pages. Drgs. 3 sheets).

CLASS : 28A. 156162

Int. Cl. : F23c 7|00, 5|00; F23d 13|00

"FUEL INLET ASSEMBLIES FOR FUEL REACTORS".

Applicant : BS & B ENGINEERING COMPANY INC., A CORPORATION ORGANIZED AND EXISTING UNDER THE LAWS OF THE STATE OF DELAWARE, UNITED STATES OF AMERICA, OF 8308 SOUTHWEST FREEWAY, HOUSTON, TEXAS 77074, UNITED STATES OF AMERICA.

Inventors : GERARDUS ANTHONIUS MARKUS.

Application for Patent No. 328|Del|81 filed on 22nd May, 1981.

Convention date 17th June, 1980|8019827 (U.K.).

Appropriate Office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

## 9 Claims

A fuel inlet assembly for a fuel reactor which has an inner shell mounted coaxially within an outer shell, the outer shell being closed at one axial end of the reactor, and the inner shell having a discharge nozzle extending through said closed end of the outer shell at one end of the inner shell, the outer shell having an inlet for introducing combustion air into the annular space between the inner and outer shells, the other end of the inner shell being spaced from the inlet assembly which is mounted at the other end of the outer shell, said fuel inlet assembly comprising a base plate mounted to close said other end of the outer shell, a fuel inlet aperture in said base plate, a first frusto-conical inlet cone mounted directly on said base plate to surround said fuel inlet aperture and with the

2-87 GI|85

wider and of the cone adjacent to the base plate, and a second frusto-conical inlet cone mounted coaxially with and spaced from the first cone, the wider end of the second cone facing the base plate being spaced therefrom, to provide an annular space between the first and second cones, which opens at the wider end of the second cone into the space surrounding the first cone, whereby a portion of the combustion air flows from the outer shell through the annular space between the first and second inlet cones, to premix said fuel entering at said first inlet aperture, whereby the remainder of the combustion air mixes with the fuel on the side of the second cone remote from the plate.

(Complete Specification 14 pages. Drgs. 3 sheets).

CLASS : 85K 156163

Int. Cl. : F23b 1|00.

"AN IMPROVED HOT AIR GENERATOR FIRED BY PARTICULATE FUELS".

APPLICANT : COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, RAFI MARG, NEW DELHI-110001, INDIA, AN INDIAN REGISTERED BODY INCORPORATED UNDER THE REGISTRATION OF SOCIETIES ACT (ACT XXI OF 1860).

Inventor : MANOJ MOHAN SEN.

Application for patent No. 353|Del|81 filed on 2nd June, 1981.

Complete specification left on 2nd September, 1982.

Appropriate Office for opposition proceedings (Rule 4, Patents Rules 1972) Patent Office Branch, New Delhi-5.

## 6 Claims

An improved hot air generator fired by particulate fuels comprising a fluid bed combustor unit partly filled with ash particles and provided with a set of heat transfer tubes kept immersed in the bed, means for supplying air to be heated through the set of the tubes from one end of the tubes and withdrawing the heated air from the other end, a distributor plate and a wind box provided at the base of the combustor for supply and uniform distribution of fluidising and combustion air to the combustor, an opening provided on the front wall of the combustor and situated at a distance above the distributor plate for entry of fuel, an outlet provided on the back wall of combustor for discharge of the over flow material from the bed, a convective heat exchanger such as herein described mounted over the said combustor and means for removing, cooling and cleaning of the dust laden flue gases provided at the top of the convective heat exchanger.

(Provisional specification 7 pages. Drg. 1 sheet).

(Complete specification 19 pages. Drg. 1 sheet).

CLASS : 14B. 156164

Int. Cl. : H01m 27|00.

"ALKALINE CELL".

Applicant : SONY EVEREADY INC., A COMPANY ORGANIZED AND ESTABLISHED UNDER THE LAWS OF JAPAN, OF 22-3 SHIBUYA 2-CHOME, SHIBUYA-GU, TOKYO, JAPAN.

Inventors : TORU NAGAURA AND TAKAYUKI AITA.

Application for patent No. 356|Del|81 filed on 3rd June, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

## 4 Claims

An alkaline cell comprising a cathode material, an alkaline electrolyte and an anode material characterized in that the cathode material comprises nickel and silver containing oxide having trivalent nickel ion and monovalent silver ion present in a substantially equimolar ratio.

(Complete Specification 18 pages. Drgs. 8 sheets).

CLASS : 50D, F. 156165

Int. Cl. : G05f 1|10, H02m 5|00.

"REFRIGERATOR COMPRISING A MOTOR-COMPRESSOR UNIT WITH A VARIABLE ELECTRICAL SUPPLY".

Applicant : NECCHI SOCIETA PER AZIONI A COMPANY ORGANISED UNDER THE LAW OF THE ITALIAN REPUBLIC OF VIA RISMONDO 78-PAVIA, ITALY.

Inventor : ALFREDO BAR.

Application for Patent No 401|Del|81 filed on 22nd June, 1981

Appropriate Office for opposition proceedings (Rule 4, Patents Rules 1972) Patent Office Branch, New Delhi-110005

4 Claims

A refrigerator comprising a motor-compressor unit with a variable electrical supply, characterised by comprising a control centre arranged to process temperature data determined in said refrigerator and to provide control signals to the input of a power supply unit which feeds a voltage  $V$  at frequency  $f$ , as herein described for the motor compressor unit such as to determine different supply frequency and voltage conditions in accordance with said control signals.

(Complete Specification 6 pages. Drgs. 1 sheet)

CLASS : 94-(C+G)

156166

Int. Cl. : B 02c 9|00.

A TILTABLE WFT GRINDING MACHINE.

Applicant & Inventor : RANGASWAMY NAIDU DORAI-SWAMY, SOLE PROPRIETOR OF SANTHA INDUSTRIALS, 158, AVANASHI ROAD, PEEI AMEDU, COIMBATORE-641004 TAMIL NADU

Application No 170|Mas|82 filed September 10, 1982

Complete Specification left December 22, 1982

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch

14 Claim

A tiltable wet grinding machine comprising a drum and a drive unit for rotating the drum both accommodated in a housing tiltably and pivotally mounted on a support frame, the drum being mounted vertically and rotatably about the axis thereof, the drum having a base with an uneven horizontal top surface to define a grinding surface, said base being provided with a central aperture to locate therethrough a vertically extending fixed shaft, at least one vertically displaceable horizontal shaft mounted on said fixed shaft and provided with at least one cylindrical grinding member rotatably mounted on either end thereof and in contact with the grinding surface such that as the drum rotates each said grinding member travels, over said grinding surface and rotates in opposite directions and in a plane perpendicular to the plane of rotation of the drum, the free end of the fixed shaft being provided with a locking means and a spring loaded between the locking means and the horizontal shaft to accommodate vertical displacement of the horizontal shaft along with the grinding members

(Prov. 4 pages Com 10 pages Drgs. 1 sheet of size 33.00 cms by 41.00 cms.).

CLASS : 129C

156167

Int. Cl. B 23b 51|02.

A TUNGSTEN CARBIDE TWIST DRILL.

Applicant : WIDIA (INDIA) LIMITED, 8|9TH MILE, TUMKUR ROAD, BANGALORE-560 073, KARNATAKA

Inventor : (1) RANGARAJAN SRINIVASAN,  
(2) VISWANATHA VARADARAJAN,  
(3) KADABA RAMANNA SRIDHAR.

Application No 22|Mas|82 filed February 3, 1982  
Appropriate office for opposition proceedings (Rule 4, Patents Rules 1972) Patent Office, Madras Branch

2 Claims

A tungsten carbide twist drill comprising a spiral fluted twist drill body and a spiral drill tip attached to each other by a brazed joint characterised in that the drill tip and twist drill body are further attached to each other by a tenon and slot joint whereby the drill tip is not only always given a positive drive by the twist drill body but, at the same time, the brazed joint is substantially relieved of working stresses

(Com 6 pages)

Drgs. 1 sheet)

CLASS : 129F.

156168

Int. Cl. B 23c (5|00 + 7|00)

A QUICK CHANGE MILLING CUTTER.

Applicant : WIDIA (INDIA) LIMITED, 8|9TH MILE, TUMKUR ROAD, BANGALORE-560 073, KARNATAKA.

Inventor : (1) RANGARAJAN SRINIVASAN,  
(2) NAGAPPA GOPAL SHARMA,  
(3) AMITAVA SHAM CHAUDHURY.

Application No. 23|Mas|82 filed February 3, 1982

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch

3 Claims

A quick change milling cutter comprising an adapter flange, a clamping ring and a milling cutter disposable in close juxtaposition with respect to each other, the said flange and ring being mounted on the milling machine, with the flange being driven by the machine, the said cutter and ring, however, being provided with an "insert and twist" joint, such as, a bayonet type joint, to render the said cutter and ring engageable and disengageable, the said cutter and ring having a matching taper respectively for ensuring a positive butting action as well as proper centering, and coupling means provided for the said cutter and flange, to enable the said cutter to be driven by the said flange.

(Com 6 pages)

Drgs. 2 sheets)

CLASS : 50-B+E & 196B.

156169

Int. Cl. F 24f 1|02

AN AIR COOLER.

Applicant & Inventor : THIRUMALAI ANANDAM PILLAI VIJAYAN, C/O T. S. RAMANATHAN, POYAPAK-KAM VII LAGE, VILIUPURAM, TAMIL NADU, PIN CODE NO 605 602

Application No 67|Mas|82 filed April 1, 1982.

Complete specification left March 29, 1983

Appropriate office for opposition proceedings (Rule 4, Patents Rules 1972) Patent Office, Madras Branch

7 Claims

An Air Cooler comprising an Electric Motor driving a shaft placed lengthwise anteroposteriorly and held rotatably in supports, the said shaft having a fan at each end, the said fans moving air from back to front, the said fans having between them a heat exchange assembly, the said heat exchanger assembly consisting of an upper water storage tank with outlet channel(s), the said outlet channel(s) spreading water on uniformly placed metal sheets in the form of trays placed below the said water storage tank, the said heat exchanger assembly being placed over a reservoir of water, a water pump driven by the said electric motor circulates the water from the said reservoir to the said water storage tank of the said exchanger assembly, and cools air.

(Prov. 2 pages; Com. 7 pages)

Drg. 1 sheet).

CLASS : 98-I 156170

Int. Cl. : F 03 g 7/02.

HEMISPHERICAL SOLAR-WATER-HEATER WITH AUTOMATIC SUN-TRACKING MECHANISM.

Applicant &amp; Inventor : DR. GOWRISHANKAR PANDIT RAO PALNITKAR, 5-2-1026, JAWAHARLAL NEHRU ROAD, HYDRABAD-500 001, A.P.

Application No. 131/Mas/82 filed June 14, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

## 2 Claims

Hemispherical solar water heater with automatic sun tracking device, consisting of a double walled shell, outer wall having two openings connected to the inlet and outlet of a storage tank respectively and a knob at apex of the shell, the inner wall of the shell being painted black, a highly transparent tough plastic sheet covering the mouth of the hemispherical shell, which is mounted on a steel strip having a socket welded at the centre of its upper surface and a ring allowing free movement of the strip on a stand provided therefor, the said steel strip having mounted on either side of its lower surface two metallic containers each having two openings one upper and the other lower, two plastic tubes one connecting the upper holes, of each of the said containers and other connecting the lower holes of the same.

Compl. specn. 4 sheets;

Drg. 2 sheets.

CLASS : 79 156171

Int. Cl. : B 42 f 11/00.

## AN IMPROVED FILE.

Applicant & Inventor : SEEMALLAIA PARAMASIVAM, 15, PUDUPET GARDEN STREET, ROYAPETTAH, MADRAS-600 014, TAMIL NADU.

Native Address : 4/1, VELAMPUR CHETTIAR STREET, ALAMPATTI, VIRUDHUNAGAR, RAMNAD DISTRICT, TAMIL NADU.

Application No. 157/Mas/82 filed August 9, 1982.

Complete Specification left : March 22, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

## 17 Claims

An improved file comprising a top and bottom flap which are integrally joined along one side with each other in any known manner, said bottom flap having a primary clamping means provided therewith towards the proximity of the file joint, characterised in that at least one said flap is provided with at least one auxiliary clamping means disposed outwardly and away from said primary clamping means.

Prov. : 4 pages; Compl. 12 pages; Drg. 4 sheets.

CLASS : 107 H + G + B 156172  
Int. Cl. : F 02 b-67/00.

Title :—AFTER COOLER ASSEMBLY FOR INTERNAL COMBUSTION ENGINE.

Applicant : CUMMINS ENGINE COMPANY, INC. A COMPANY INCORPORATED UNDER THE LAWS OF THE STATE OF INDIANA U.S.A. HAVING OFFICE AT COLUMBUS, INDIANA-47201, U.S.A.

Inventors : (1) HARSHAD HIMABHAI PATEL, (2) TEJENDRA NATH BOSE.

Application No. 29/Bom/1982, filed on February 3, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, Bombay.

## 11 Claims

An aftercooler assembly for an internal combustion diesel engine, said assembly comprising, housing means forming part of an elongated chamber assembly having at least one inlet and outlet for air, said housing means having a pair of elongated opposed interconnected side walls and end walls and base portion forming an elongated trough shaped housing having a substantially continuous plane top surface defined by the extremities of said side and end walls; an elongated aftercooler core positioned in said housing, said core comprising a plurality of coolant conduits extending generally parallel to the longitudinal axis of said housing means and having a pair of core support plates at opposite ends of said aftercooler core and at least one core support plate intermediate to said end core support plates, all of said support plates extending generally transverse to and structurally connected to said coolant conduits; and means for securing said intermediate core support plate to both of said walls adjacent to said plane surface, thereby forming a structural support for said aftercooler core and reinforcing the side walls of said housing.

Compl. specn. 11 pages,

Drg. 2 sheets.

Ind. CLASS : 98D + E + G & 50E<sub>2</sub>

156173

Int. Cl. : F25b-29/00.

## A HEAT PUMP FLUID HEATER.

Applicant VOLTAS LIMITED, OF 19 J. N. HEREDIA MARG, BALLARD ESTATE, BOMBAY 400 038 MAHARASHTRA, INDIA, AN INDIAN COMPANY.

Inventor : DUVVURI RAVINDRA.

Application No. 39/Bom/1982 filed February 12, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Bombay Branch.

## 6 Claims

A heat pump fluid heater comprising a vapour compression refrigeration system, a thermally insulated fluid storage tank and a heat exchanger said heat exchanger being disposed in said tank and connected to the condenser and vapour compressor of said refrigeration system.

Compl. specn. 8 pages.

Drg. 4 sheets.

CLASS : 49 H

156174

Int. Cl. : A 47 j 27/00.

## METHOD OF FORMING THE BODY OR VESSEL OF A PRESSURE COOKER OUT OF A STAINLESS STEEL SHEET.

Applicants : PRESSURE COOKERS & APPLIANCES LTD, UNITED INDIA BUILDING, PHEROZESHAH MEHTA ROAD, BOMBAY-400 001, MAHARASHTRA, INDIA.

Inventor : (1) NARANAMMALPURAM SANKARAN SUBRAMANIAN.

Application No. 69/Bom/1982 filed March 25, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Bombay Branch.

## 7 Claims

A method of forming the body of the pressure cooker of the type described, comprising the steps of forming a cup shaped cylindrical vessel out of stainless steel sheet, spinning the portion of the wall of the vessel near its top to form an inwardly directed flange, characterised in that—

(i) the spinning operation is performed in a plurality of stages;

(ii) the wall of the vessel near its top is bent inwardly through substantially same angle of 15° to 20° during each stage of spinning;

- (iii) the wall of the vessel near its top is maintained straight during all the stages of spinning;
- (iv) the said wall near the top is annealed after each stage of spinning;
- (v) the surface speed of spinning is maintained at 150 to 200 meters per minute;
- (vi) the ratio  $w_a$ , where  $w$  is the radial width of the flange and  $d$  is the outer diameter of the vessel is maintained between .082 and .086; and
- (vii) the top portion of the vessel is finally flattened by pressing.

Compl. specn. 11 pages. Drg. 1 sheet

Ind. CLASS : 98 I 156175

Int. Cl. : F 24 j 3/02.

#### TWO PHASE SOLAR HEATER.

Applicant : HINDUSTAN BROWN BOVERI LIMITED, BROWN BOVERI HOUSE, 264-265, DR. ANNIE BESANT ROAD, BOMBAY-400 025, MAHARASHTRA, INDIA, AN INDIAN COMPANY.

Inventor : RAVINDER SINGH SOIN.

Application No. 225/Bom/1982, filed September 7, 1982.

Complete after Provisional left September 5, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Bombay Branch.

#### 13 Claims

A two phase solar heater comprising an insulated storage tank having a cold fluid inlet and a hot fluid outlet; a heat exchanger placed inside or outside the storage tank; a collector array consisting of one or more collectors, each of the collectors containing one or more two phase solar absorber panels, each of the two phase solar absorber panels comprising a frame having a working fluid inlet header at its one end, an insulated working fluid inlet tube one end whereof is rigidly connected to said inlet header, a working fluid outlet header at its other end opposite to said one end, an insulated working fluid outlet tube one end whereof is rigidly connected to said header, a plurality of independent working fluid flow channels along its length, a header space towards its said one end between and adjoining and communicating with the said channels and the said inlet header and a further header space towards its said other end between and adjoining and communicating with the said channels and the outlet header, the surface of the said frame facing solar radiation being painted with a black paint and a working fluid recycle pipe one end whereof is connected to said inlet header and the other end whereof is connected to said outlet header such that said recycle pipe is spaced apart below said inlet tube and outlet tube, the inlet end of the heat exchanger being connected to the outlet tubes of the two phase solar absorber panels by an insulated vapour line and the outlet end of the heat exchanger being connected to the inlet tubes of the two phase solar absorber panels by an insulated liquid line; and a working fluid charging valve introduced in the said liquid line.

Compl. specn. 15 pages. Drg. Nil.

Provisional specn. 12 pages. Drg. 7 sheets.

CLASS : 98 I 156176

Int. Cl. : F 24 j 3/02.

SOLAR COLLECTOR HOUSING BUILDING MEMBERS, METHOD OF BUILDING SOLAR COLLECTOR HOUSING WITH THE BUILDING MEMBERS AND SOLAR COLLECTOR HOUSING BUILT WITH THE BUILDING MEMBERS.

Applicants : HINDUSTAN BROWN BOVERI LIMITED BROWN BOVERI HOUSE, 264-265, DR. ANNIE BESANT ROAD, BOMBAY-400 025, MAHARASHTRA, INDIA.

Inventor :—RAVINDER SINGH SOIN.

Application No. 226/Bom/1982 filed September 7, 1982.

Complete after Provisional left September 5, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Bombay Branch.

#### 9 Claims

Solar collector housing members comprising a main member having an external guiding portion at its one end, one or more internal ribs towards its said one end a further internal rib towards its other end directly opposite to said one end, a hooking cum interlocking means below the said further internal rib and at least two spaced a part internal screw holes; and a retainer member having a F-shaped cross section, the said main member and retainer member being symmetrically tapered at two directly opposite ends which form mating surfaces of said main member and retainer member.

Compl. specn. 13 pages.

Drg. 1 sheet.

Provisional specn. 10 pages.

Drg. 7 sheets.

Ind. CLASS : 98 I

156177

Int. Cl. : F 24 i 3/02.

AN IMPROVED SOLAR ABSORBER PANEL, A METHOD OF MANUFACTURING THE SAME AND A SOLAR COLLECTOR HAVING THE SAME.

Applicant : HINDUSTAN BROWN BOVERI LIMITED, OF BROWN BOVERI HOUSE, 264-265 DR. ANNIE BESANT ROAD, BOMBAY-400 025, MAHARASHTRA, INDIA, AN INDIAN COMPANY.

Inventor : RAVINDER SINGH SOIN.

Application No. 227/Bom/1982 filed on September 7, 1982.

Complete specification left on September 5, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Bombay Branch.

#### 17 Claims

An improved solar absorber panel comprising a frame having a plurality of independent working fluid flow channels along its length, a header space at its either end adjoining and communicating with said channels and at least one header port at its either end communicating with the respective header space, the surface of the said frame facing solar radiation being painted with a black paint.

Provisional specification 9 pages.

Drawings 3 sheets.

Complete specification 19 pages.

Drawings 5 sheets.

CLASS : 98 I

156178

Int. Cl. : F 24 j, 3/02.

A TWO PHASE SOLAR ABSORBER PANEL, METHOD OF MANUFACTURING THE SAME AND SOLAR COLLECTOR HAVING THE SAME.

Applicant : HINDUSTAN BROWN BOVERI LIMITED, OF BROWN BOVERI HOUSE, 264-265 DR. ANNIE BESANT ROAD, BOMBAY-400 025, MAHARASHTRA, INDIA AN INDIAN COMPANY.

Inventor : RAVINDER SINGH SOIN.

Application No. 228/Bom/1982 filed on September 7, 1982.

Complete specification after provisional specification left September 5, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Bombay Branch.

## 15 Claims

A two phase solar absorber panel comprising a frame having a working fluid inlet header at its one end, a working fluid inlet tube one end whereof is rigidly connected to said inlet header, a working fluid outlet header at its other end opposite to said one end, a working fluid outlet tube one end whereof is rigidly connected to said outlet header, a plurality of independent working fluid flow channels along its length, a header space towards its said one end between and adjoining and communicating with the said channels and the said inlet header, and a further header space towards its said other end between and adjoining and communicating with the said channels and the said outlet header, the surface of the said frame facing solar radiation being painted with a black paint; and a working fluid recycle pipe one end whereof is connected to said inlet header and the other end whereof is connected to said outlet header such that said recycle pipe is spaced apart below said inlet tube and outlet tube.

Complete specification 14 pages. Drg. 1 sheet.  
Provisional specn. 9 pages. Drg. 3 sheets.

Ind. CLASS : 129G + 206D 156179

Int. Cl. : H 03 k 5/00; H 05 f 3/00.

Title :—A CIRCUIT FOR GENERATING NON-EROSIVE PULSES FOR ELECTRIC DISCHARGE MACHINES.

Applicant & Inventor : MADHAV PRABHAKAR KAWTHEKAR, AN INDIAN NATIONAL, OF "NIWARA" 1150, SUBHASH NAGAR, POONA-411 002, MAHARASHTRA, INDIA.

Application No. 251/Bom/82 filed on September 22, 1982.

Complete after Provisional Left on August 1, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Bombay Branch.

## 5 Claims

A circuit for generating non-erosive pulses for electric discharge machines having conventional means to generate an erosive pulse across the machining gap; said circuit comprising a d.c. voltage source, a current limiting means, an electric energy accumulator, a pulse duration control means and a polarity changer means connected across an electrode tool and workpiece separated by a dielectric liquid forming the machine gap characterised in that means for generating non-erosive pulses are connected to the said energy accumulator and means for superimposing the erosive and non-erosive pulses are connected, to said pulse duration control means, said non-erosive pulse generating means and said polarity changer means.

Prov. Specn. 4 pages. Drg. 1 sheet.  
Comp. specn 10 pages. Drg. 2 sheets.

Ind. CLASS : 141E + 129H 156180  
Int. Cl. : C 21 b 1/00—1/10.

A PROCESS FOR THE PRODUCTION OF IRON ORE SINTERS WITH SMOOTH PERIPHERY.

Applicant : PARAMOUNT SINTERS PRIVATE LIMITED, OF 1-A, CANAL ROAD, RAMDASPETH, NAGPUR-440 010, MAHARASHTRA, INDIA, AN INDIAN COMPANY.

Inventor : SUDHAKAR VINAYAK KOTHARI.

Complete specification left on 25th July, 1983.

Application No. 299/Bom/1982 filed on 5th November, 1982.

## 5 Claims

A process for the production of iron ore sinters with smooth periphery, said process consisting of the following steps :

- (i) mixing the raw materials, namely, iron bearing metallurgical fines, solid fuel fines and water and if desired, flux fines to form a mixture thereof;
- (ii) sintering the mixture of step (i) to form a sinter cake;
- (iii) crushing the sinter cake of step (ii) to form sinters;
- (iv) screening the sinters of step (iii);
- (v) cooling the sinters of step (iv);
- (vi) subjecting the sinters of step (v) to attrition by tumbling, rolling or vibrating them to form sinters with smooth periphery; and
- (vii) screening the sinters with smooth periphery of step (vi).

Provisional specification 3 pages. Drg. Nil.  
Compl. specn. 11 pages. Drg. 1 sheet.

Ind. CLASS : 170B + 62A<sub>1</sub>, A<sub>2</sub> 156181  
Int. Cl. : C11d—1/00, 3/00: D 061 3/00.

A BLEACHING COMPOSITION COMPRISING A PEROXIDE COMPOUND AND A HEAVY METAL COMPOUND.

Applicant : HINDUSTAN LEVER LIMITED, 165-166 BACKBAY RECLAMATION, BOMBAY-400-020, INDIA.

Inventors : JOHN OAKES.

Application No. : 340/Bom/1982 filed December 21, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Bombay Branch.

## 12 Claims

An improved bleach composition comprising a peroxide compound and a heavy metal ion, the improvement being that said heavy metal ion is manganese (II) present in an amount of 0.005 to 5% by weight and is not derived from cyanocompound, said composition including a carbonate compound which delivers carbonate ions in aqueous solution, in an amount of 1-50% by weight calculated as carbonate ions, and optionally a surface active agent and/or detergency builder.

Compl. specn. 22 pages. Drg. Nil.

CLASS : 88-D 156182  
Int. Cl. : B 01 d 51/06; C 10 k 1/28.

A PROCESS AND APPARATUS FOR THE PREPARATION OF COOLED AND PURIFIED GAS FROM A HOT GAS.

Applicant : SHELL INTERNATIONALE RESEARCH

Applicant : SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ B.V., OF CAREL VAN BYLANDT-LAAN 30, THE HAGUE, NETHERLANDS.

Inventors : 1. JACOB HENDRIK STIJL, 2. ADRIANUS JACOBUS OOMS.

Application No. 11/Cal/82 filed January 2, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 37 Claims

A process for the preparation of cooled and purified gas from a gas as herein described having a temperature in the range of from 1500°C to 2000°C flowing substantially vertically upwards in the container, sticky slag droplets and/or particles as herein described characterized in that the process comprises the following step

- (a) cooled clean gas as herein described is injected into the hot gas to obtain a gas mixture as herein described having a reduced temperature
- (b) the velocity of the gas mixture is reduced
- (c) the flow of the gas mixture is reversed so that the gas mixture flows downwards in a direction that is at an acute angle to the original substantially vertical direction of flow
- (d) the velocity of the gas mixture flowing obliquely downwards is increased
- (e) the gas mixture flowing obliquely downwards at an increased velocity is cooled by indirect exchange of heat,
- (f) the velocity of the cooled gas mixture is reduced,
- (g) the stream of the gas mixture having a reduced velocity is reversed so that the gas mixture now flows upwards in substantially vertical direction and the particles fall down
- (h) the gas mixture flowing substantially vertically upwards at reduced velocity is further cooled by indirect exchange of heat while a further quantity of slag particles falls down
- (i) the slag particles are discharged

Compl spec 19 pages

Drg 1 sheet

CLASS 32 E

156183

Int Cl C 081 37 18

## LIQUID COMPOSITION FOR AQUEOUS MEDIA

Applcant THE DOW CHEMICAL COMPANY AT MIDLAND COUNTY OF MIDLAND, STATE OF MICHIGAN UNITED STATES OF AMERICA

Inventor SYAMALARAO IVANI

Application No 157 Cal 82 filed February 4 1982

Appropriate office for opposition proceedings (Rule 4 Patents Rules 1972) Patent Office Calcutta

## 12 Claims

A liquid composition for aqueous media which composition comprises a water soluble polymer such as herein described having one or hydrophobic groups and a water dispersible surfactant such as herein described having hydrophobic group that associate with the hydrophobic group of the polymer wherein the proportion of water-soluble polymer and surfactant is in the range from 20% to 0.5% by weight and at ambient conditions water containing 0.5 weight percent of the thickening composition has a viscosity at least twice the viscosity of water

Compl spec 42 pages

Drg Nil

CLASS 59 B

156184

Int Cl B 03 f 7/00

## LIQUID TRANSPORT

Applcant & Inventor STUART HOPTON SMALL OF HJOKUNNVIK 9 OSLO 3 NORWAY

Application No 611/Cal/82 filed May 27, 1982

Appropriate office for opposition proceedings (Rule 4 Patents Rules 1972) Patent Office Calcutta

## 10 Claims

Liquid transport apparatus which comprise, a liquid transport line having an inlet for liquid a rise pipe and an air inlet means for reducing pressure in the line, and a pump for pumping transported liquid such that a column of liquid can be aspirated in the rise pipe when the pressure reducing means is in operation and the air inlet is open

Compl spec 19 pages

Drg 2 sheets

CLASS 67 C

156185

Int Cl G 08 C 19/00

## APPARATUS FOR TRANSMITTING SIGNALS BETWEEN A FIXED STATION AND A MOBILE STATION IN A POWER DRIVEN TEXTILE MACHINE

Applcant TRUTZSCHER GMBH & CO KG, OF LUVENSTRASSE 82 92 D 4050 MONCHENGLADBACH 3 WEST GERMANY

Inventor ERNST HOSEI

Application No 776 Cal/82 filed July 2 1982

Appropriate office for opposition proceedings (Rule 4 Patents Rules 1972) Patent Office Calcutta

## 18 Claims

Apparatus for transmitting signals between a fixed station and a mobile station in a power driven textile machine, comprising in combination

a transmitter and a receiver disposed at said fixed station, a transmitter and a receiver disposed at said mobile station, a transmitter at said mobile station and said receiver at said fixed station being associated with said transmitter at said mobile station each of the said transmitters including

a clock pulse generator counter means, for counting the clock pulses from said pulse generator and for providing a plurality of parallel bits which form addresses at its output multiplexer means having a plurality of data inputs and responsive to said bits provided by said counter means for selecting a certain of said data inputs in dependence on the particular address so as to establish an electrical connection between the selected said data input and a release input of a gate circuit whose input is connected to the output of said counting means, and a transmitting encoder means, having its input connected to the output of said gate circuit for providing coded data for transmission to the associated receiver, whereupon the signal connecting causes said gate circuit to release the address being provided by said data input to said transmitting encoder means if a signal is present at the selected data input, and

each said receiver including

a further clock pulse generator further counter means for counting the clock pulses from said further clock pulse generator and for providing a plurality of bits, which form addresses at its output, receiving decoder means for comparing received transmitted data corresponding to the address of a selected input of the said multiplexer means of the associated transmitter with the address output of a provided by said further counter means and for providing an output signal when said data coincide, signal release means connected to the output signal only upon receipt of said output signal from said receiving decoder means and a demultiplexer means responsive to the address data from said further counter means and to said output signal from said signal release means for providing an output signal on the one of its said data outputs corresponding to the address selected by the concurrent address data from said further counter means

Compl spec 20 pages

Drg 6 sheets

CLASS : 133-A

156186

Int. Cl : H 02 p 1/26

## POWER FACTOR CONTROL SYSTEM FOR AN AC INDUCTION MOTOR

Applicant : NATIONAL AERONAUTICS AND SPACE ADMINISTRATION NASA HEADQUARTERS WASHINGTON, D.C. 20546, U.S.A.

Inventor : FRANK JOSEPH NOLA.

Application No. 950/Cal/82 filed August 13, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 6 Claims

A power factor control system for an A.C. induction motor including current sampling means in circuit with at least one phase winding of said motor for providing an A.C. output signal representative of the timing of alternating current through said winding; said motor is preferably a three-phase motor having three said windings, with each said winding being provided with a thyristor in series; voltage sampling means adapted to sense the voltage of an electrical input applied to said winding for providing an output signal representative of the timing of alternating current voltage across said winding; and phase detection means responsive to the outputs of said current and said voltage sampling means for providing an output which varies in accordance with the difference in phase between said current and voltage characterized by :

signal means for providing a control signal comprising a signal increasing with time followed by a fixed level signal the latter comprising a power factor command signal; and

control means connected in series with said motor winding, and responsive to the combined outputs of said phase detection means and signal means for varying the duration of "on" time of each cycle of input power to said winding as an inverse function of the output of said phase detection means and as a direct function of the output of said signal means; whereby a gradually increasing power input is applied to said motor during a selected starting interval and thereafter the motor is controlled by said fixed level power factor command signal.

Compl. specn 15 pages

Drg. 2 sheets.

CLASS : 76-B & E

156187

Int. Cl : F 16 f 11/00, 13/00, 15/00

## MOUNTING DEVICE FOR PLASTIC WORKPIECES.

Applicant : SEAL ED POWER CORPORATION, OF 100 TERRACE PLAZA, MUSKEGON, MICHIGAN 49443, U.S.A.

Inventors : 1. A. DAVID JOSEPH, 2. CHARLES JOSEPH MULALLY.

Application No. 1037/Cal/82 filed September 7, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta

## 5 Claims

A mounting device for clamping a plastic workpiece against a rigid support comprising a threaded opening in said support a circular opening in said workpiece defined by a continuous annular bead, a one-piece eyelet of metal construction having a circumferentially continuous peripheral portion with a flange in engagement with said bead and a central portion with a central opening adapted in assembly to register with said threaded opening said peripheral portion including said flange having a predetermined diameter and thickness an annular spacer of metal construction carried by said eyelet in facing engagement with said eyelet central portion with a central opening in register with said eyelet opening and a thickness at least equal to said predetermined thickness and a threaded fastener having a shank member extending through said spacer and eyelet opening into said threaded opening and a head in clamping engagement with said threaded opening and a head in clamping engagement with said spacer, whereby compressive clamping stresses are transferred from the fastener head through the spacer to the eyelet central portion.

Compl. specn 9 pages.

Drg. 1 sheet.

CLASS : 29D, 186T

156188

Int. Cl : H 04 L 15/00, 21/00

## DUAL LANGUAGE TERMINAL DOT MATRIX PRINTER SYSTEM.

Applicant : BURROUGHS CORPORATION, A CORPORATION IN THE STATE OF MICHIGAN, UNITED STATES OF AMERICA, AND HAVING ITS PRINCIPAL OFFICE AT BURROUGHS PLACE DETROIT, MICHIGAN 48232, UNITED STATES OF AMERICA.

Inventor : (1) MR LYNN LAWRENCE AUGSPURGER, (2) MR APUN PRABHAKAR KULKARNI AND, (3) MR AVINASH SRIPAD KANADE

Application No. 321/Bom/1981 filed on November 18, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Bombay Branch.

## 6 Claims

A dual language terminal dot matrix printer system capable of receiving and printing information in Devnagari or English comprising a dot matrix print mechanism having printhead carrier motor and forms motor being driven on receipt of string of characters and programme instructions by programmable interface adaptors linked to the microprocessor; a read write memory for storing the incoming data being received through programmable communication serial input output interface unit from host computer; a dual language character generator memory to store the character shapes in the form of dot matrix patterns; a programmable timer module for generating motor timing pulses and counting the transduced pulses coming from the motor; a microprocessor to execute the procedures contained in the programme memory and to control the printer functions, a programme memory, linked to the said microprocessor and the other of the said units, containing firmware to decode type, width and shape of Devnagari characters, to combine two or more Devnagari characters to produce an unique shape, to copy the resulting dot matrix in appropriate place in a preparation buffer, to strip off unused portion of the preparation buffer and copy into a compact print buffer and finally print the contents of print image buffer in two passes of the printhead

Compl. specn. 11 pages.

Drg. 11 sheets.

CLASS : 36 B3

156189

Int. Cl : F 04 d 2 29/00.

## IMPROVEMENTS IN OR RELATING TO METALLIC ELECTRIC FAN BLADE

Applicant : CROMPTON GREAVES LIMITED OF V. B. GANDHI MARG, BOMBAY 400 023, INDIA

Inventors : 1. SHETALKUMAR HARISHCHANDRA MANGAL AND 2. DILIP GOVIND RANADIVE

Application No. 102/Bom/1982 filed April 23, 1982

Comp. after prov. left on March 17, 1983

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Bombay Branch

## 4 Claims

A metallic electric fan blade the leading edge or each of the leading edges whereof is provided with safety means, said safety means being a blunt surface comprising a bent or curved portion integrally formed along the leading edge or each of the leading edges of the said blade.

Prov. specn. 6 pages. Drg. 1 sheet.

Compl. specn. 6 pages Drg. Nil.

CLASS : 6A. 156190

Int. Cl. : F 01 b—1|06.

## IMPROVED COMPRESSOR.

Applicant & Inventor : VANMALI MAHIPAT ATRE, 305, ANIL CO-OP. SOCIETY, DR. KFTKAR ROAD, PUNE-411 004. MAHARASHTRA, INDIA.

Application No 111/Bom/1982 filed April 26, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Bombay Branch.

## 2 Claims

An improved compressor comprising a plurality of even numbers of radially located cylinders carrying corresponding number of pistons piveling in the said cylinders, each of the said piston is connected with a connecting rod of round section and which is provided with a cross pin at its free end the pin is having a roller bearing fixed at its either end engaging in a circular groove provided in a circular plate one on each side, both of the said plates are centrally mounted on a shaft and the said grooves are eccentric with respect to the axis of the said shaft, a pair of guide plates rigidly mounted on the housing of the compressor and each of which is provided with slots according to number of cylinders of the compressor, the said pin vertically slides in the said pair of slots to give reciprocating motion to the said round connecting rod and in turn to the piston; each of the said cylinder is provided with an air tight seal at the lower/pin end; the cylinders are provided with inlet/outlet valves in the known manner; arrangement being such that air is compressed during each stroke of the piston to work like double acting compressor

Compl. specn. 6 pages. Drg. 2 sheets.

Ind. CLASS : 170B+D 156191

Int. Cl. : C 11 d—1/00 3/08.

## IMPROVED BUILT DETERGENT BARS AND METHOD OF MANUFACTURING SAME.

Applicant : HINDUSTAN LEVER LIMITED, HINDUSTAN LEVER HOUSE, 165/166, BACKBAY RECLAMATION, BOMBAY-400 020. MAHARASHTRA, INDIA.

Inventor : PETER JAMES POWERS.

Application No. 136/Bom/82 filed on May 18, 1982.

U.K. Conventional Priority Date 21st May, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules 1972) Patent Office, Bombay Branch.

## 22 Claims

A built detergent bar comprising from 5% to 45% by weight of non-soap detergent active material as herein described and from 5% to 60% by weight of detergent builder material as herein described characterised in that the bar includes alumino-silicate formed *in situ* in an amount effective to improve the bar properties.

Compl. specn. 19 pages. Drg. Nil.

Ind. Cl. : 179 E+F.

Int. Cl. : B65d-51|00.

156192

## A DISPENSING DEVICE.

Applicants : THE AHMEDABAD MANUFACTURING AND CALICO PRINTING CO. LTD., OUTSIDE JAMAI-PUR GATE, AHMEDABAD, GUJARAT, INDIA.

Inventors : (1) NIRENDRA NATH CHATTERJEE AND

(2) HOSAGRAHARA CHANNAPPIAH SUBBA RAO.

Application No. 140/Bom/1982 filed May 22, 1982.

Appropriate Office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Bombay Branch.

## 4 Claims

A dispensing device for use with container adapted to fit on the neck of the container for dispensing the material from the container comprising :

- (a) a dispenser consisting of an engaging part to fit on the neck of the container and having a tubular outlet member provided on the said engaging part for the flow of the material from the container, (a blocking pin connected on the mouth of the said tubular outlet member) leaving a material flow passage beneath the said pin, the junction of the blocking pin with the mouth of the tubular outlet member being formed into a shoulder or flange having rounded outer surface;
- (b) a cap adapted to fit over the dispenser, an opening provided at the upper end of the said cap for engagement by the blocking pin of the dispenser when the cap is in fully engaged position with the dispenser, a cooperating rib provided at the inside of the said cap, said rib and the said flange in mutual cooperation forms a seal and prevents the flow of the material below the said flange of the dispenser so that any excess material which is not dispensed can return to the container through the said tubular outlet member.

Complete specification 13 pages.

Drg. 1 sheet.

Ind. CLASS : 32c+F3a, 170B+D 156193

Int. Cl. : C07c-51|52, C11d-1|04.

## A PROCESS FOR THE PREPARATION OF ALKALI METAL ISETHIONATES FROM ETHIONIC ACID.

Applicant : HINDUSTAN LEVER LIMITED, HINDUSTAN LEVER HOUSE, 165/166, BACKBAY RECLAMATION, BOMBAY-400 020, MAHARASHTRA, INDIA.

Inventors : 1. VINCENT LAMBERTI AND

2. WILDER FAIRBANKS PFASE.

Application No. 143/Bom/1982 filed May 29, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Bombay Branch.

## 7 Claims

A process for the preparation of alkali metal isethionates from ethionic acid, comprising the steps of :

- (a) heating an aqueous solution of ethionic acid having concentration of 20% to 50% at a temperature of 80°C to 160°C to produce a solution of isethionic acid and sulphuric acid;
- (b) neutralising the said solution of isethionic acid and sulphuric acid with a mixture of calcium hydroxide and an alkali metal hydroxide, the amount of the hydroxides in said mixture being sufficient to substantially completely convert the sulphuric acid into hydrated calcium sulphate and the isethionic acid into an alkali metal isethionate;
- (c) separating by any known method the alkali metal isethionate from the neutralised solution.

Compl. Specn. 12 pages.

Drgs. Nil.

Ind. Cl. : 128E; 64B<sub>1</sub>.

156194

10 Claims

Int. Cl. : A61b, 5/04.

**A CLAMP TYPE ELECTRODE HOLDING DEVICE FOR ELECTROCARDIOGRAM.****Applicant & Inventor :** SADHANA SHARAD CHANDRIANI (SOLE PROPRIETRIX) OF P.A.C. ENGINEERING, 2330, DR. S. S. RAO ROAD, LALBAUG, BOMBAY-400 012, MAHARASHTRA, INDIA.

Application No. 153|Bom|1982, filed on June 16, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Bombay Branch.

**16 Claims**

A clamp type electrode holding device for an electrocardiogram comprising a clamp having a pair of arms which have a cavity and a projection in the middle portion thereof so as to accommodate an U shaped spring, the ends of the said spring being inserted into the said cavity one end of one of the arms being provided with means for holding an electrode to which the leads from the E.C.G. machine are adapted to be connected and both the other ends of the said arms, having serrations, forming handles, such that by pressing the said handles, the said arms move outwardly to facilitate the insertion of the limbs in between the said arms.

Compl. specn. 10 pages.

Drgs. 1 sheet.

INDIAN Cl. : 32 F<sub>3</sub>a.

156195

Int. Cl. C07C, 27/00, 27/02, 29/12, 68/08.

**A PROCESS FOR THE PREPARATION OF BORATE ESTERS.****Applicant :** INDIAN OIL CORPORATION LIMITED, 254-C, DR. ANNIE BESANT ROAD, PRABHADAEVI, BOMBAY-400 025, MAHARASHTRA, INDIA, AN INDIAN COMPANY.**Inventors :** (1) BABU RAM TYAGI, (2) KHAZAN SINGH, (3) SOM PRAKASH SRIVASTAVA, (4) KULWANT SINGH ANAND AND (5) KRISHAN CHAND MEHTA.

Application No. 158|Bom|1982 filed on June 25, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Bombay Branch.

**11 Claims**

A process for preparation of borate esters comprising reacting glycol and/or glycol monoethers with boric acid in the presence of an inert water azeotropic solvent at a temperature of between 50—200°C and continuously removing water by distillation from the resulting reaction mixture, said reaction being carried out in the presence of an inert gas, such as nitrogen.

Compl. specn. 11 pages.

Drgs. Nil.

Ind. Cl. : 143D.

156196

Int. Cl. : B65b, 51/00.

**IMPROVEMENT IN AND MODIFICATION OF FOOT PRESSURE OPERATED SEALING MACHINE FOR SEALING POLYTHENE OR P.V.C. OR POLYPROPYLENE OR LIKE BAGS.****Applicant :** NAVINCHANDRA JAIKISHANDAS PATEL, AN INDIAN OF 5, SATNAM SOCIETY, JAWAHAR CHOWK, MANINAGAR, AHMEDABAD-380008, GUJARAT, INDIA.

Inventor : YOGENDRA JAIKRISHANDAS PATEL.

Application No. 174|Bom|1982, filed on July 1, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Bombay Branch.

3—87GI/85

A foot pressure operated sealing machine for sealing polythene or P.V.C. or polypropylene or like bags comprising a sealing electrode which is adapted to be energised or de-energised by a pressure contact switch a source of power supply for the electrode, which source is connected through an electronic timer circuit having a transistor net-work and a relay, said transistor net-work along with the said relay being adapted and arranged to function according to preset timings for starting, holding and releasing the said pressure contact switch, depending on the nature and requirement of sealing of materials to be sealed by the said sealing electrode, and indicating lamps connected with the said timer circuit for visual indication of the starting, holding and releasing sequences of the pressure contact switch.

Compl. specn. 15 pages.

Drgs. 1 sheet.

CLASS : 146C.

156197

Int. Cl. HO 4 r-29/00, Goh-1/00.

**A HOLDER FOR FIRMLY AND REMOVABLY HOLDING A VIBRATION SENSING DEVICE IN A TUBE OR THE LIKE.****Applicant :** LARSEN & TOUBRO LIMITED L & T HOUSE, NAROTTAM MORARJI MARG, BALLARD ESTATE, BOMBAY-400 001, MAHARASHTRA, INDIA.**Inventors :** MATHUR RAMASWAMY SHANKER AND GAJANAN KRISHNAJI SADEKAR

Application No. 313|Bom|1982 filed Nov. 18, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Bombay Branch.

**6 Claims**

A holder for firmly and removably holding a vibration sensing device such as electromechanical transducer in a tube or the like, said holder comprising a tapered tubular long member adapted to firmly and removably locate said device therein, the narrow or inner end of said long member being closed and provided with a threaded hole and the wide or outer end of said long member being open; and a tapered tubular short member, the narrow or inner end of said short member being provided with a threaded stem and the wide or outer end of said short member being open, said stem being coaxial with and located in said hole, the wide or outer portion each of said long member and short member being provided with a plurality of spaced apart longitudinal slots originating from the wide or outer end of each long member and short member.

Compl. specn. 9 pages

Drgs. 1 sheet.

CLASS : 24D<sub>2</sub>

156198

Int. Cl. : B 60 t 11/00 + 5/00 ± 11/00.

**A VEHICLE DECELERATION SENSING MODULATOR VALVE ASSEMBLY.****Applicant :** LUCAS INDUSTRIES PUBLIC LIMITED COMPANY, OF GREAT KING STREET, BIRMINGHAM-19, ENGLAND.

Inventor : IVAN MORTIMER

Application No. 232|Mas|82 filed November 26, 1982.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch

**6 Claims**

A vehicle deceleration sensing modulator valve assembly of the kind set forth in which the deceleration sensing element is housed in a cage which is slideable within a chamber subject to inlet pressure and is resiliently biased towards engagement with a first abutment on the housing and a second abutment on the control piston, the deceleration valve comprises a valve seat on the piston which is adapted to be closed against com-

munication with the inlet by the deceleration sensing element, the cage comprises an unseating portion engageable with the deceleration sensing element and arranged such that the valve seat is opened on relative movement apart of the piston and cage from the relative position in which the cage is engaged with the second abutment, and the piston has a first pressure effective area exposed to inlet pressure to produce a force on the piston acting in the direction away from the cage, and a second, oppositely acting pressure effective area exposed to outlet pressure, the second area being larger than the first area, the area of the valve seat being included in the computation of the first area.

Compl. 17 pages.

Drgs. 3 sheets.

CLASS : 6-A<sub>2</sub>.

156199

Int. Cl. F 16 k 15/14

## COMPRESSOR DISCHARGE VALVE.

Applicant : WHITE CONSOLIDATED INDUSTRIES, INC., OF 11770, BEREA ROAD, CLEVELAND, OHIO 44111, U.S.A.

Inventor : 1. JACK FEATH FRITCHMAN  
Application No 497|Cal|82 filed May 4, 1982.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 9 Claims

A discharge valve for a refrigeration compressor comprising a valve plate defining a substantially flat, planar surface, a single discharge port in said valve plate, said port defining a valve seat coplanar with said valve plate surface a flat, elongated valve reed having first and second ends, said valve reed being normally in contact with said valve plate surface and in sealing engagement with said valve seat, said valve reed being positioned so that said valve seat is closer to said second end than to said first end, a valve spring substantially coextensive with and overlying said valve reed, said valve spring being of sheet material with the middle portion being bowed upwardly away from said valve reed and with the ends in abutting engagement with said valve reed, and a stop member fixedly mounted with respect to said valve plate and having a stop surface overlying said valve spring and in abutting engagement with said bowed portion of said valve spring, the portion of said stop surface adjacent said second end of said valve reed being spaced further from said valve plate surface than the portion of said stop surface adjacent said first end of said valve reed.

Compl. Specn. 18 pages.

Drgs. 1 sheet.

CLASS : 145-D

156200

Int. Cl. : D 21 f 5/00.

## APPARATUS FOR HEATING THE CYLINDRICAL WALL OF A ROTARY CYLINDER OF A PAPER MAKING MACHINE.

Applicant : BELOIT CORPORATION, P.O. BOX 350, BELOIT, WISCONSIN, 53511, U.S.A.

Inventor : 1. UDINO STEDILE.

Application No. 643|Cal|82 filed June 4, 1982.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta

## 15 Claims

Apparatus for heating the cylindrical wall of a rotary cylinder for a paper making machine, in particular a driving cylinder for the paper sheet of a paper making machine, characterised by the fact that it comprises at least one magnetic flux generator device means for supporting such device at a predetermined distance from the said cylinder and drive means operable to generate movement, at a predetermined relative angular velocity between, the said cylinder and the said magnetic flux generator device, the

said cylindrical side wall of the said cylinder being made of metal material the said predetermined distance being chosen in such a way that the magnetic flux generated by the said device intersects at least part of the said side wall.

Compl. specn. 13 pages

Drgs. 3 sheets.

CLASS 42-1

156201

Int. Cl. : A 24 c 5/50

## IMPROVED PROCESS AND APPARATUS FOR THE MANUFACTURE OF FILTER ELEMENTS.

Applicant : CELANESE CORPORATION, LOCATED AT 1211 AVENUE OF THE AMERICAS, NEW YORK, NEW YORK, UNITED STATES OF AMERICA.

Inventors : 1. REBECCA ANNE HYDE, 2. KENNETH RAY KRIMMINGER, 3. ROBERT ERNEST SWANDER.

Application No. 781|Cal|82 filed July 5, 1982.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 11 Claims

An improved process of manufacturing filter elements from opened and deregistered crimped continuous filament tow is conducted from a mechanical forwarding means through an aspirating jet into a compacting means adjacent said jet and wherein means are provided for dissipating aspirating fluid, the improvement comprising causing said tow to contact a tow controlling means positioned intermediate said mechanical forwarding means and said aspirating jet, said tow controlling means controlling said tow width and direction and imparting at least some drag to said tow.

Compl. specn. 23 pages.

Drgs. 2 sheets

CLASS : 14-C.

156202

Int. Cl. : H 01 1 15/02.

## A SINGLE OR MULTIPLE CELL TYPE IMPROVED PHOTOVOLTAIC DEVICE AND A METHOD OF MAKING THE SAME.

Applicant : ENERGY CONVERSION DEVICES, INC. 1675 WEST MAPLE ROAD, TROY, MICHIGAN 48084, U.S.A.

Inventors : 1. CII-CHUNG YANG, 2. ARUN MADAN, 3. STANFORD R. OSHINSKY, 4. DAVID ADLER.

Application No. 1433|Cal|82 filed December 9, 1982.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 109 Claims

A single or multiple cell type improved photovoltaic device formed from multiple layers of semiconductor alloys deposited on a substrate which provides increased short circuit current, said device comprising :

a first doped semiconductor alloy layer deposited on said substrate,

a body of an intrinsic amorphous semiconductor alloy deposited on said doped layer, said intrinsic body including a first layer adjacent said doped layer formed from the deposition of a non-etching starting material and a second intrinsic layer different in composition from said first layer; and

a further doped semiconductor alloy layer deposited on said second intrinsic layer and being of opposite conductivity with respect to said first mentioned doped amorphous semiconductor alloy layer.

Compl. specn. 66 pages.

Drgs. 4 sheets

CLASS . 32-E.

156203

Int Cl B 29 d 7/00, C 08 f 1/00, 15/00

## HEAT-SEALABLE FILMS OF THERMOPLASTIC MATERIAL

Applicant NAPHTACHIMIE SA, OF TOUR NEPTUNE, LA DEFENCE 1, 20 PLACE DE SEINE, 92400 COURBEVOIE, FRANCE

Inventors 1 BERNARD DESVIGNES, 2 DANIEL DURAND, 3 BERNARD MILLELIRI

Application No 485/Cal/83 filed April 22, 1983

Divisional of Appl No 58/Cal/80, Date 16th January, 1980

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta

## 4 Claims

Heat-sealable films comprising a film of thermoplastic material as herein described covered on one face at least by a layer of a copolymer of propylene as hereinbefore defined, the films having a sealing threshold, measured as set for them in Example B of lower than 125°C and a hot seal strength range, measured as in TAPPI test T683, of at least 250°C

Compl specn 10 pages

Drgs Nil

CLASS 32F2(1)

156204

Int Cl C 07 c 169/00

## A PROCESS FOR THE PREPARATION OF N-ACETYLYL=6=O—(Didydrocholesteryl =3=O—succinyl) muramyl=1=alanyl=D=Isoglutamine

Applicant COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH RAH MARG NEW DELHI-110001, INDIA, AN INDIAN REGISTERED BODY INCORPORATED UNDER THE REGISTRATION OF SOCIETIES ACT (ACI XXI OF 1860)

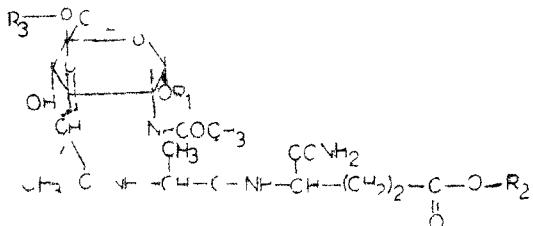
Inventors RAKISH KUMAR JAIN CHHITAR MAL GUPTA &amp; NIYA ANAND

Application for Patent No 185/Del/81 filed on 31st March, 1981

Appropriate office for opposition proceedings (Rule 4, Patents Rules 1972) Patent Office Branch New Delhi 5

## 4 Claims

A process for the preparation of N-acetyl=6=O—(didydrocholesterol=3=O—succinyl) muramyl=1=alanyl=D=Isoglutamine of formula of fig (i)



wherein R<sub>1</sub> and R<sub>2</sub> are hydrogen atoms and R<sub>3</sub> is a radical of formula of fig (II)

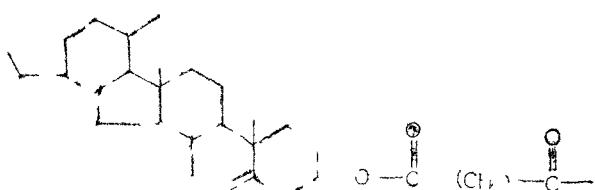


Fig II

which comprises reacting cholesterol with succinic anhydride to obtain a compound of formula of fig (III),

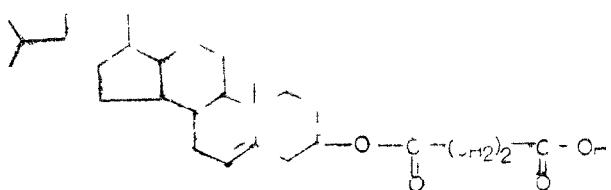


Fig III

treating the formula of figure (III) with N, N-dicyclohexyl-carbodiimide to form the anhydride of formula of fig. IV

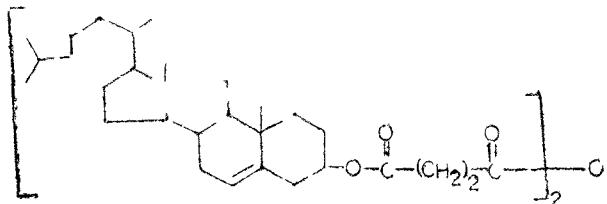


Fig. IV

acylation of a compound of formula of fig (I) wherein R<sub>1</sub> is=CH<sub>2</sub>—C<sub>6</sub>H<sub>5</sub>, R<sub>2</sub> is CH<sub>2</sub>—C<sub>6</sub>H<sub>4</sub>—NO<sub>2</sub> (P) and R<sub>3</sub> is hydrogen with the said anhydride of formula of fig IV to form a compound of formula of fig (I) wherein R<sub>1</sub> is=CH<sub>2</sub>—C<sub>6</sub>H<sub>5</sub>, R<sub>2</sub> is C<sub>4</sub>—C<sub>6</sub>H<sub>4</sub>—NO<sub>2</sub> (P) and hydrogenating by known methods the reaction product to obtain the desired compound of formula of fig I, wherein R<sub>1</sub> and R<sub>2</sub> are hydrogen atoms and R<sub>3</sub> is a radical of formula of fig (II)

Compl specn 9 pages

Drg 1 sheet

CLASS 53

156205

Int Cl B 24 b 9/02

## AN IMPROVED DEVICE FOR AUTOMATIC PRECISION GRINDING OF LASER TUBE/ROD END SURFACES

Applicant COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH RAH MARG, NEW DELHI 110001, INDIA, AN INDIAN REGISTERED BODY INCORPORATED UNDER THE REGISTRATION OF SOCIETIES ACT (ACI (XXI OF 1860)

Inventor LINOD KANTI ROY

Application for Patent No 258/Del/81 filed on 25th April, 1981,

Appropriate Office for opposition proceedings (Rule 4 Patents Rules 1972) Patent Office Branch New Delhi-110005

## 5 Claims

An improved device to automatic precision grinding of laser tube rod (7) and surfaces comprising of a base (2) a hollow cylinder (8) with open ends rotatably mounted on the said base means (11) provided at said ends to adjustably fit the said tube rod (7) so that the 1<sup>st</sup> and 2<sup>nd</sup> rotating head (10) connected to the said cylinder for rotation the cylinder and rotating in in a circular motion on a stand (13) firmly mounted on the said base a plat form (19) shakably mounted on the said base further rotating in an mounted on the said platform for the automatic grinding tool (18) mounted on the output shaft of the 1<sup>st</sup> further rotating means, so that the tool contacts the free end of the tube rod to be ground with precision

Compl specn 8 page

D 2 sheets

CLASS 40 B

156206

Int Cl B 01 j 11/00

## A PROCESS FOR CATALYTIC STEAM REFORMING OF HYDROCARBONS

Applicant THE M. W. KELLOGG COMPANY OF THREE GREENWAY PLAZA EAST, HOUSTON, TEXAS-77046, UNITED STATES OF AMERICA, AN AMERICAN COMPANY.

Inventor: HIRSH PAUL TITIHN AND KASHINATH ZIPARU PATHIL

Application for Patent No 336, Del 81 filed on 25th May, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

1 Claims

A process for carrying out the reforming of hydrocarbons which comprises passing a hydrocarbon feed of the kind such as herein described with steam over a reduced catalyst composition having a ratio of oxides which in the un-reduced condition contains the following:

- (a) from 10 to 20 weight per cent nickel oxide in optional amounts with minor portion of another Group IVB transition metal oxide
- (b) from 10 to 30 weight per cent of one or more oxides selected from a group consisting of oxides of yttrium and the lanthanides having atomic number 54 to 71 and
- (c) from 10 to 20 weight per cent zirconium oxide and may add thereto in one or more inert oxides selected from a group consisting of hafnium oxide, lanthanum oxide, yttrium oxide, calcium oxide, and at least one alkali oxide, in an amount less than 75 weight per cent of component

Comp. spec. 1/21

CLASS 171 156207

Int. Cl. I 21 1 1/2 0

HIGH SPEED COATING METHOD AND APPARATUS FOR CONTINUOUS HOT ROLLING PRODUCTS

Object: THE INVENTION CONCERNED WITH THE CONSTRUCTION COMPANY, A CORPORATION, INC., D. UNDER THE LAWS OF THE COMMONWEALTH MASSACHUSETTS, UNITED STATES OF AMERICA, 10 BELMONT STREET, WORCESTER, MASSACHUSETTS, UNITED STATES OF AMERICA

Inventor: KELVIN S. TOWNS

Application for Patent No 336, Del 81 filed on 25th May 1981

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005

22 Claims

A high speed method of continuously hot rolling a product comprising:

passing the product through a plurality of roll passes, with the product being subjected to horizontal forces in at least one roll pass, the force in the first roll pass being such that the product is supported by a maximum force greater than the available force of the roll pass, and

exerting an additional force on the product in advance of said first roll pass, the said additional force being such that when combined with the horizontal force in said preceding roll pass to overcome the maximum opposing force and thus achieve a further pass of the product in said one roll pass

Comp. spec. 1/21

Drg 5 sheets

CLASS 141 156208

Int. Cl. B4 15/16

AN INKJET DYNAMIC TABLE FOR SERIGRAPHIC PRINTING

Applicant: SALVADOR GALLI MALI OFRE, OF C/ VALENCIA, 7 ESCALERA A 70 1a, BARCELONA 15, SPAIN, A SPANISH CITIZEN

Inventor: SALVADOR GALLI MALI OFRE

Application for Patent No 332 Del 81 filed on 26th May, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

6 Claims

An improved long table for serigraphic printing of the type in which the printing carriage is automatically operated and the table is comprised of a continuous surface, all the sides of which there are provided rails for the carriage, characterised in that the surface of the table is formed of a plurality of like boards each of said boards being arranged adjacent each other and joined together by a transversal metallic bar which is shared by each two adjacent boards partially fitting into front recesses provided in each one of them the boards being mounted on a metal structure having an angular profile or a dual wing which constitutes a frame having slightly larger dimensions than the dimensions of the sum of the boards, after the wings to said boards as a seat said wings being directed outwards and secured together by means of cross members whose wings, at one side act as a seat for the boards while perpendicularly they rest on regularly spaced legs which are braced by members in one direction and by cross members in the other, forming trestles which with the help of rods, secure each assembly in collaboration with counter braces provided in each trestle and the side members of the frame, the lateral expansion being diverted towards both ends and the central leg being fixed to the floor while the remaining legs are arranged on slides slidable in guides

Comp. spec. 18 pages

Drg 5 sheets

CLASS 801 156209

Int. Cl. B01D 25/00, 29/00

PANEL FILTERS PARTICULARLY FOR AIRCONDITIONING SYSTEMS

Applicant: ANAND AUTOMOBILES, AN INDIAN PARTNERSHIP FIRM, WHOSE PARTNERS ARE DEEP CHAND ANAND, JAGDISH ANAND, KULDIP CHAND ANAND AND SATISH CHAND ANAND, ALL INDIAN NATIONALS OF 62, INDUSTRIAL DEVELOPMENT COLONY MEHRAuli ROAD GURGAON HARYANA, INDIA

Inventor: SUDHIR MOHAN GUPTA

Application for Patent No 335, Del 81 filed on 27th May, 1981

Application for Patent No 799, Del 81 filed on 23rd December, 1981.

The Provisional specifications cognitively and one complete specification left on 21st August 1982

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules 1972) Patent Office Branch, New Delhi-110005

6 Claim

A panel filter particularly for airconditioning comprising a filtration pad consisting of a porous fabric impregnated with a resin having a plurality of spaced and parallel rods held at their ends to opposite sides of said frame characterized in that said rods are integrally secured to the said frame by the side of each said reinforcement in the form of a netting mesh, the porous pad at least on one side of said pad is folded up and glued to the ends of the said rods and the said filter basket is disposed within the said fold.

(Provisional Specification 5/1)

Comp. spec. 11 pages

Drg 5 sheets

CLASS : 80L 156210

Int. Cl. : B01d 27|00, 35|00.

"PANEL FILTERS".

Applicant : ANAND AUTOMOBILES, A PARTNERSHIP FIRM, WHOSE PARTNERS ARE DEEP CHAND ANAND, JAGDISH ANAND, KULDEEP CHAND ANAND AND SAJISH CHAND ANAND, ALL INDIAN NATIONALS OF 62 INDUSTRIAL DEVELOPMENT COLONY, MEHRAULI ROAD, GURGAON, INDIA.

Inventor : SUDHIR MOHAN GUPTA.

Application for Patent No. 336|Del|81 filed on 27th May, 1981.

Complete Specification left on 24th August, 1982.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

## 5 Claims

A panel filter comprising an outer frame for supporting a plurality of filtration elements, each of said elements comprising at least a single filtration bag consisting of fibres impregnated with a resin and having a netting material thereon, the open end of said bag adapted to be held to a sealing with the outer frame, a frame member having resilient and sealable properties.

(Provisional Specification 6 pages.

Complete Specification 10 pages. Drg. 1 sheet).

CLASS : 69B, Q. 156211

Int. Cl. : H01h 37|02.

"A HEATING ELEMENT HAVING A THERMOSTAT SWITCH".

Applicant : HEATING ENGINEERS, 12TH FLOOR, VANDHNA, 11, TOLSTOY MARG, NEW DELHI-110001, INDIA A REGISTERED INDIAN PARTNERSHIP FIRM WHOSE PARTNERS ARE YASH RAJ CELLY, KRISHAN PRakash KAPOOR, VANITA GURRAL, VERSHA SLIHI, KAVITA KAPOOR, AND HILLA SHROFF ALL INDIAN NATIONALS OF THE ABOVE ADDRESS.

Inventor : KRISHAN PRASAD SETHI.

Application for Patent No. 337|Del|81 filed on 27th May, 1981.

Complete Specification left on 7th July, 1982.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

## 6 Claims

A heating element having a thermostat switch comprising a flange for supporting said heating element, said flange being in contact with said switch, said switch having a first terminal pin connected to one end of said heating element and a second terminal pin connected to the other end of said heating element through first and second contacts, said first contact being a fixed contact, said second contact being a moveable contact, a bimetal strip for imparting an actuation to said second contact, said bimetal strip responsive to the temperature of the heating element.

(Provisional specification 6 pages.

Complete specification 8 pages. Drg. 1 sheet).

CLASS : 108 B 2(,). 156212

Int. Cl. : C 21 bl 13|00.

"AN IMPROVED PROCESS FOR THE PRODUCTION OF SPONGE IRON".

Applicant : COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, RAFI MARG, NEW DELHI-110001, INDIA AN INDIAN REGISTERED BODY INCORPORATED UNDER THE REGISTRATION OF SOCIETIES ACT (ACT XXI OF 1860).

Inventors : BHUPENDRA KRISHNA MAZUMDAR, JITENDRA MOHAN SANYAL & BHOLA NATH BOSE.

Application for Patent No. 341|Del|81 filed on 28th May, 1981.

Complete specification left on 28th August, 1982.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

## 12 Claims

An improved process for the production of sponge iron comprising incorporating stoichiometric amount of a reducing carbonaceous material with iron ore fines, preparing moulded shaped admixture and subjecting the same to a one step heating in a furnace at a temperature gradient of 300°C to 1300°C to effect a simultaneous reduction, induration and incipient fusion of the composite shaped material to obtain the sponge iron.

(Provisional specification 11 pages).

(Complete Specification 14 pages).

CLASS : 89, 126A. 156213

Int. Cl. : G 01 I 5|14, 9|00.

"A PRESSURE TRANSDUCER FOR THE MEASUREMENT OF PRESSURES CAUSED BY UNDERWATER EXPLOSIONS".

Applicant : THE CHIEF CONTROLLER, RESEARCH & DEVELOPMENT, MINISTRY OF DEFENCE (GOVT. OF INDIA), NEW DELHI, INDIA, AN INDIAN NATIONAL.

Inventors : DARBHAMULLA SIVARAMA MURTHY, VIRENDRA SINGH SETHI, GOPI CHAND, BRIJ MOHAN GUPTA, ASHOK KUMAR SACHDEVA, RAJENDRA PAUL, DAL CHAND AND TILAK RAJ JAIP.

Application for Patent No. 268|Del|81 filed on 1st May, 1981.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

## 7 Claims

A pressure transducer, for measurement of pressures caused by under water explosions comprising a sensing element which has a pile of two quartz crystal discs connected in parallel with interleaving copper foil electrodes, the central electrode forming the positive electrode, the remaining two electrodes connected to each to form the negative electrode and two metal pistons on opposite sides of said pile being located within a gauge body secured to a gauge holder.

(Complete Specification 13 pages.

Drg. 2 sheets).

CLASS : 42A1. 156214

Int. Cl. : A24c 5|52.

"DEVICE FOR FITTING FILTERS TO CIGARETTES".

Applicant : G. D SOCIETA' PFR AZIONI, OF VIA POMPONIA, 10 BOLOGNA, ITALY, AN ITALIAN COMPANY.

Inventor : ENZO SERAGNOLI.

Application for Patent No. 274|Del|81 filed on 4th May, 1981.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

## 6 Claims

A device for fitting filter to cigarettes by means of a glued band which is wound around each group of at least one cigarette and one filter cutting in end contact therewith comprising a rolling surface having therein equidistantly spaced grooves for housing said groups and suction means for holding each of said glued bands to the rolling surface prior to its being around a group means comprising at least two counter rolling surfaces, each of which can be moved, successively, into a rolling position which is opposite the rolling surface and spaced therefrom by a distance or slightly less than the diameter of one of said groups said rolling surface being movable relative to the counter rolling surface located opposite thereto, such that a said group located therebetween is caused to rotate and wind the glued band around itself, as it travels the length of the counter rolling surface, and cleaning means provided adjacent at least one of the counter rolling surfaces which is not in the rolling position in order to clean said counter rolling surface while the device is in operation

(Compl. specn 13 pages)

Drg 1 sheet).

CLASS 120B, 156D 156215

Int Cl F04b 11 00

## SPRING ACTUATED PISTON PUMP FOR TURBO SUPERCHARGER BEARINGS

Applicant FREDERICK JOHN TAYLOR A BRITISH SUBJECT OF 41 VICTORY ROAD WEST MERSEA, ESSEX ENGLAND AND TRANS EUROPE (PRODUCTION) LIMITED A BRITISH COMPANY OF 41 VICTORY ROAD WEST MERSEA ESSEX ENGLAND

Inventor FREDERICK JOHN TAYLOR

Application for Patent No 2/6 Del 81 filed on 5th May, 1981

Convention date 17th February 1981 8104983 (G B)

Appropriate Office for Opposition Proceedings (Rule 4 Patents Rules 1972) Patent Office Branch New Delhi 110005.

## 13 Claims

A spring actuated piston pump for turbo supercharger bearings comprising a pump cylinder having at one end thereof a cylinder head piston means slidably axially within the pump cylinder so as to define a pump chamber between the crown of the piston and the cylinder head the piston means being slidable between a first position wherein the piston crown is adjacent the cylinder head and a second position wherein the piston crown is spaced from the cylinder head, biasing means to urge the piston means towards its first position and releasable catch means operable on the piston means to restrain movement of the piston means under the action of the biasing means when the piston means is at a third position part way between said first and second positions

(Compl. specn 18 pages)

Drg 2 sheets).

CLASS 32F<sub>3</sub>(1) 156216

Int Cl C07c 27 00, 63 00, 57 00

## OXIDATION OF SUBSTITUTED AROMATIC COMPOUNDS TO AROMATIC CARBOXYLIC ACIDS

Applicant IMPERIAL CHEMICAL INDUSTRIES PLC FORMERLY KNOWN AS IMPERIAL CHEMICAL INDUSTRIES LIMITED OF IMPERIAL CHEMICAL HOUSES MILLBANK, LONDON SW1P 3JH ENGLAND A BRITISH COMPANY

Inventor STEPHEN VYNNE NORVAL

Application for Patent No 333/Del/81 filed on 26th May, 1981

Convention date 10th June 1980/80 18919 (U K)

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules 1972) Patent Office Branch New Delhi-110005

## 11 Claims

A process for the production of an aromatic carboxylic acid which comprises oxidising by means of molecular oxygen a substituted aromatic compound in the presence of a catalyst comprising a heavy metal compound and/or bromine and/or a bromine-containing compound characterised in that the oxidation is carried out in an essentially aqueous reaction medium and in the presence of iodine or an iodine containing compound

(Complete specification 9 pages)

CLASS 85 C G

156217

Int Cl F23J 5/00

## A SOLID FUEL BOILER

Applicant RESLARCH COTRELL TECHNOLOGIES INC, FORMERLY KNOWN AS KVB INC A COMPANY ORGANISED UNDER THE LAWS OF THE STATE OF CALIFORNIA, USA OF 18006 SKY PARK BOULEVARD IRVINE, CALIFORNIA, UNITED STATES OF AMERICA

Inventors KENNETH LONG MAJONE & NICK BAYARD DE VOLO

Application for Patent No 352 Del 81 filed on 2nd June, 1981

Appropriate Office for Opposition Proceedings (Rule 4 Patents Rules 1972) Patent Office Branch New Delhi 110005

## 9 Claims

A solid fuel fired boiler having a combustion chamber a fuel grate means for supporting a solid fuel bed, said solid fuel bed disposed within said combustion chamber for the purpose of providing an energy source for combustion, flue means allowing for the exit of gaseous products from the combustion of the solid fuel within said combustion chamber, and flue gas recirculation means comprising (a) means for recirculating a first predetermined quantity of gaseous products from said flue means to a bottom surface of said solid fuel bed, said quantity of gaseous products having an amount of moisture and carbon dioxide sufficient to lower the temperature of said solid fuel bed on said fuel grate (b) means for mixing said recirculated gaseous products with air prior to recirculating said gaseous products to said solid fuel bed, said means for mixing forming a first mixture of said gaseous products and air, (c) over-fire air means for providing a second mixture of a second predetermined quantity of gaseous products from said flue means and air as over-fire air above said solid fuel bed, whereby separate mixtures of different ratios of flue gas to air are permitted as sources of under-fire and over-fire air

(Complete specification 14 pages)

Drg 2 sheets).

CLASS 32F<sub>3</sub>(b)

156218

Int Cl C07c 57/00

## PROCESS FOR THE FFC TROCHIMICAL PREPARATION OF 2 FURFOIC ACID FROM FURFURAL DI HYDRO

Applicant COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH RAJENDRA MARG NEW DELHI 110001, INDIA, AN INDIAN REGISTERED BODY INCORPORATED UNDER THE REGISTRATION OF SOCIETIES ACT (ACT XXI OF 1860)

Inventors HANADY VENKATAKREELA, KODETHOOR SHRIVARA UDUPA AND DINESH CHANDRA TRIVEDI

Application for Patent No 337 DQ 81 filed on 16th June 1981

(Complete specification left on 10th September 1982)

Appropriate Office for Opposition Proceedings (Rule 4 Patents Rules 1972) Patent Office Branch New Delhi 110005

## 5 Claims

A process for the electrochemical preparation of 2-furoic acid from furfuraldehyde comprising electro-oxidation of furaldehyde dissolved suspended in a bath of aqueous solution of sodium carbonate/bicarbonate using a cobalt-oxy-hydroxide anode and a stainless steel cathode and separating the 2-furoic acid formed by methods known per se.

(Provisional Specification 4 pages.

Complete Specification 7 pages).

CLASS : 31 B.

156219

Int. Cl. : H01f 15/00.

"AN ELECTRIC SHUNT INDUCTANCE WINDING FOR AN ELECTRIC POWER TRANSPORT LINE".

Applicant : ALSTHOM ATLANTIQUE, A FRENCH COMPANY OF 38, AVENUE KLEBER, 75784 PARIS, CEDEX 16, FRANCE.

Inventors : GERARD MESSE & MICHEL FAURE.

Application for Patent No. 390/Del/81 filed on 16th June, 1981.

Appropriate Office for Opposition Proceedings (Rule 4 Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

## 6 Claims

An electric shunt inductance winding for an electric power transport line comprising a magnetic core round which is installed an electric winding and a magnetic barrel to close the magnetic circuit, which magnetic barrel has two vertical legs connected together by an upper cross bar and a lower cross bar, said magnetic core having a central hole and being constituted by a vertical stack of laminated iron core members separated from one another by gaps made of non magnetic material wherein the upper cross bar and the lower cross bar are clamped against the magnetic core and said vertical legs by means of a plurality of the rods made of non-magnetic material which pass through said central hole and passing through said cross bars, spacing washers being placed at regular intervals along the tie rods so as to prevent them from vibrating.

(Complete specification 8 pages.

Drgs. 2 sheets).

CLASS : 176E, F.

156220

Int. Cl. : F22b 37/00.

"FLUIDIZED BED HEAT EXCHANGER WITH WATER COOLED AIR DISTRIBUTOR AND DUST HOPPER".

Applicant : DORR-OLIVER INCORPORATED, A CORPORATION OF THE STATE OF DELAWARE, UNITED STATES OF AMERICA OF 77 HAVEMFYAR LANE, STAMFORD, CONNECTICUT 06904, UNITED STATES OF AMERICA, AND E. KEEFER COMPANY, A COMPANY OF 238 WEST STREET, WILLIAMSPORT, PENNSYLVANIA 17701, UNITED STATES OF AMERICA.

Inventors : WILFRED WILHEIM JUKKOLA; ALBERT MARTIN LEON; GARRITT CORNELIUS VAN DYK, JR.; DANIEL EUGENE MCCOY; BARRY LEE FISHER; TIMOTHY LEF SAIERS AND MARLIN EUGENE KARSTEETTER

Application for Patent No. 391/Del/81 filed on 16th June, 1981.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

## 6 Claims

A fluidized bed heat exchanger comprising a housing, a reaction chamber within the housing, means located in the lower portion of said housing for introducing air into said reaction chamber including a windbox region below said reaction chamber and an air distributor there between, a unitary

floor and bridgewall assembly in said housing, a convection heat exchange chamber above said reaction chamber within said housing and separated from said reaction chamber by a slanted baffle, said baffle defining a gas passageway between said reaction chamber and convection heat exchange chamber and having a hopper portion whereby dust is collected and removed from gases passing through said convection heat exchange chamber means located above said air distributor and opening into said reaction chamber for establishing a bed of particulate material containing fuel in said reaction chamber, said bed of particulate material being subject to fluidization by air passing into said reaction chamber from said windbox region through said air distributor, a steam drum in said convection heat exchange chamber, an array of tubes for extracting heat from hot gases in said heat exchanger each connected at one end to said steam drum and passing through said reaction chamber and into and through said air distributor to connect with a header, said array of tubes being spaced from the walls of said reaction chamber and having a vertical orientation in that portion of the reaction chamber occupied by said fluidized bed of particulate material, the walls of said housing in the region of said reaction chamber being water-cooled, said unitary floor and bridgewall assembly formed to provide said air distributor one of said housing walls, and said baffle, said air distributor having perforations therethrough for air traversing said perforations from said windbox to said reaction chamber, valve controlled conduit means within said housing and extending from said hopper portion of said baffle to a discharge port opening into said reaction chamber below the upper surface of said fluidized bed to return dust from said hopper to said fluidized bed.

(Complete specification 14 pages.

Drgs. 4 sheets).

CLASS : 6A.

156221

Int. Class : F28b 23/00.

"IMPROVED VALVE ASSEMBLY OF THE DIAPHRAGM TYPE."

Applicant : KRISHAN GOPAL KHOSLA, OF 11 PRITHVI RAJ ROAD, NEW DELHI, INDIA, AN INDIAN CITIZEN.

Inventor : KRISHAN GOPAL KHOSLA.

Application for patent No. 393/Del/81 filed on 17th June, 1981.

Appropriate Office for opposition proceeding Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

## 6 Claims

An improved valve assembly for controlling under the influence of air pressure the automatic opening and closing alternately of two opposed ports which comprises valve body, a valve chamber within said valve body a pair of oppositely disposed ports located within said valve body and opening into said valve chamber, an air outlet connected to and leading from said valve chamber and a flexible diaphragm rigidly connected to said valve body and extending through the valve chamber between the openings of the two opposed ports whereby, by virtue of the resilience of diaphragm, air pressure acting through the near port on the near face of the diaphragm causes the latter to deform automatically in the opposite direction and close effectively the opening of the far port while a change-over of pressure acting through the far portion the far face of the diaphragm causes the latter to deform automatically in the reverse direction and close effectively the opening of the near part.

(Complete specification 10 pages.

Drawing one sheet)

CLASS : 129B.

156222

Int. Class : C23d 5/00.

"A PLANT FOR PRODUCING ENAMELED FIRE USING AN INJINF PROCESS".

Applicant : MAG MASCHINEN UND APPARATEBAU GESELLSCHAFT MRS an Australian Company of Puntigamerstr. 127, A 8055 Graz, Austria.

Inventors : MIKLOS HORVATH and HANS-PETER PICHLER.

Application for patent No. 396/Del/81 filed on 18th June, 1981

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

#### 22 Claims

A plant for producing enameled wire using an inline process for processing wire coming from a wire pay-off system, in having in line a wire drawing apparatus, a bare wire annealer, an enamel dope coater, an enamel processing unit and an enameled wire take-up unit, characterized in that the enameling processing unit consists of a common oven housing in which a retort is installed, which has a driving space (15) being connected to an adjacent space (17), the drying space and curing space both being joined up in circuit by way of a return shaft and that in the circuit there is a blower (19) for producing a circulating air current.

(Complete Specification 17 pages. Drawing 2 sheets).

Ind. Cl. : 77D + 40B 156223

Int. Cl. : , , b- 3/10 B 01 d 15/06.

A METHOD FOR THE REGENERATION AND REUSE OF SPENT ADSORBENT BEDS OF A SERIES OF ADSORPTION BEDS IN THE PROCESS OF REFINING FATS.

Applicant : HINDUSTAN LEVER LIMITED, OF HINDUSTAN LEVER HOUSE, 165-166 BACKBAY RECLAMATION, BOMBAY-20, MAHARASHTRA, INDIA.

Inventors : ASHOK KUMAR BHANDARI, NAGANATHAN VISWANATH BRINGI, AND SHRINATH SHESHANGIRI KALBAG.

Application No. 161/Bom/1982 filed on June 26, 1982. Complete after provisional left on September 2, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Bombay Branch.

#### 1 Claim

A method for the regeneration and reuse of spent adsorbent bed of a series of adsorption beds in the process of refining fats which comprises subjecting the first of the series of spent adsorbent beds, when the last bed of the series has also been spent, to a step of regeneration by contacting with an azeotrope mixture of hexane and isopropyl alcohol, thereafter reusing the said regenerated first adsorbent bed as the last bed of the series, thereafter subjecting the second of the spent, and continuing the said regeneration steps until all the said beds have been spent, regenerated and reused as many number of times as they are capable of functioning as adsorbents.

Complete specn. 6 pages. Drg. 1 sheet.  
Provisional specn. 4 pages. Drg. 1 sheet.

Ind. CLASS : 40B + 77D 156224

Int. Cl. : B 01 d. 15/00, 15/06, C 11 b-3/10.

A PROCESS FOR THE REGENERATION OF SPENT ADSORBENT USED FOR REFINING FATTY MATERIAL.

Applicant : HINDUSTAN LEVER LIMITED, HINDUSTAN LEVER HOUSE, 165-166, BACKBAY RECLAMATION, BOMBAY-400 020, MAHARASHTRA, INDIA

Inventors : 1. KRISHNAMOORTHY CHANDRA-SEKARAN, 2. NAGANATHAN VISWANATH BRINGI & 3. SHRINATH SHESHANGIRI KALBAG.

Application No. : 162 Bom/182 filed June 26, 1982  
Complete after Provisional left September 2, 1983

Appropriate office for opposition proceedings (Rule 4, Patents Rules 1972) Patent Office, Bombay Branch

#### 5 Claims

A process for the regeneration of spent adsorbent used for refining fatty material which comprises contacting/insuring said spent adsorbent with a heterogeneous azeotrope mixture of methanol and hydrocarbon having a boiling point in the range of 40°C to 120°C and thereafter contacting said rinsed adsorbent with a superheated vapour of said hydrocarbon.

Compl. specn. 13 pages.

Drg. Nil.

Prov. specn. 9 pages.

Drg. Nil.

Ind. CLASS : 65A2, 206D 156225

Int. Cl. : H 03 k 4 '00, 5/00.

A CIRCUIT FOR GENERATING SEMISINU-SOIDAL CURRENT PULSES OF VARIABLE ENERGY, INTENSITY DURATION.

Applicant & Inventor : MADHAV PRABHAKAR KAWTHEKAR, 1150 SUBHASH NAGAR, POONA-411 002, MAHARASHTRA STATE, INDIA.

Application No. 249/Bom/1982 filed on September 22, 1982.

Complete Specification left on August 1, 1983.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules 1972) Patent Office, Bombay Branch

#### 5 Claims

A circuit for generation of semisinusoidal current pulses for use with negative resistance loads comprising a.d.c voltage source, a current limiting circuit connected to the output of the said voltage source (i) a series combination of a capacitor and an inductor, (ii) a first diode and (iii) a series combination of the negative resistance load and a second diode all connected in parallel to the output of the said current limiting circuit.

Prov. specn. 5 pages.

Drg. 1 sheet.

Compl. specn. 9 pages

Drg. 1 sheet

Ind. CLASS : 133A, 129G 156226

Int. Cl. : G 06 f 9/00.

AN APPARATUS FOR PRECISE POSITIONING OF MACHINE TOOL SLIDES.

Applicant : ELEKTRAMERIC SYSTEMS PRIVATE LIMITED, SHED NO. 37, ELECTRONIC CO-OPERATIVE ESTATE, POONA-SATARA ROAD, POONA-411 032 MAHARASHTRA STATE, INDIA.

Inventor : PISWANATH PRASAD SAHA.

Application No. : 295/Bom/1982 filed on 30th October, 1982.

Complete after Provisional left on 22nd September, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules 1972) Patent Office, Bombay Branch

#### 2 Claims

An apparatus for precise positioning of machine tool slides comprising a slide movable by a DC servo motor, a sensor connected to the slide, a distance counter connected to the said sensor, a comparator circuit in which the signals from the said distance counter and a deceleration preset circuit is compared a velocity control circuit to

which the output of the said comparator circuit is fed, said velocity control circuit having relay circuits which connects or disconnects a control signal fed to the said DC servo motor by a numerical controller through a speed pre-set.

Ind. CLASS : 86B 156227  
Int. Cl. : A 47 c—17/00.

**Title : AN IMPROVED SOFA-CUM-BED ASSEMBLY.**

Applicant & Inventor : UMAKANT SHUKLA, INDIAN NATIONAL, OF A/20, JALDARSHAN SOCIETY, ASHRAM ROAD, NAVARANGPURA, AHMEDABAD-380 009, GUJARAT, INDIA.

Application No. 318/Bom/1982 filed on 19th November, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules 1972) Patent Office, Bombay Branch.

**3 Claims**

A sofa-cum-bed assembly having a mechanism consisting of four sections which fold over one another to rest at the side wall of the sofa seat and extendable to form a bed by unfolding said sections which are being connected to each other by a plurality of linkages and plates and hinged pins, the said mechanism having foldable legs to rest the said sections extended in predetermined manner on the floor as illustrated in the accompanying drawings to form a bed, said mechanism being connected to the sofa side walls by a base plate and the said legs adapted to move over the side walls of the sofa when extended to form the bed.

Compl. specn. 8 pages. Drg. 3 sheets.

CLASS : 80 K 156228  
Int. Cl. : B 01 d—35/00.

**IMPROVEMENTS IN OR RELATING TO LIQUID FUEL CONTAINER AND A FUEL FILTER ASSEMBLY INCORPORATING THE SAME.**

Applicants : INDIAN OIL CORPORATION LIMITED, 254-C, DR. ANNIE BESANT ROAD, PRABHADEVI, BOMBAY-400 025, MAHARASHTRA, INDIA.

Inventors : (1) PREM DAYAL SRIVASTAVA, (2) NIRANJAN RAGHUNATH RAJE, & (3) DR. JOGINDER SINGH AHLUWALIA.

Application No. 31/Bom/1983 filed February 5, 1983.

Anti dated 31-12-1982 (Divisional of 403/Bom/1980).

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Bombay Branch.

**8 Claims**

An improved container for liquid fuel filter assembly of diesel engines provided with an electrical, heating element which is embedded on its inner side and which can be switched on/off to heat and dissolve wax crystals in the fuel passing through the container.

Compl. specn. 14 pages. Drg. 5 sheets.

Ind. Cl. : 53 C 156229  
Int. Cl. : B 62 k 5/02

**Title : A TRICYCLE.**

Applicant & Inventor : ROBERT DOUGLAS PERKINS, A CANADIAN CITIZEN, OF 41 ROXBOROUGH EAST, TORONTO, ONTARIO, CANADA-M4W 1V5. STREET EAST, TORONTO, ONTARIO, CANADA-M4W 1V5.

Application No. 210/Bom/1983 filed on July 1, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Bombay Branch.

**13 Claims**

A tricycle comprising :

a frame having front and rear end portions and a rider support seat, a pair of laterally spaced rear wheels journalled for rotation in the rear end portion of the frame, rider operable steering mechanism for pivoting the rear wheels for steering the tricycle;

a single front wheel which has a central hub and which is mounted for free rotation on the front end portion of the frame;

rider operable means for driving at least one of said rear wheels and comprising driven means operably connected to said one rear wheel and drive means journalled for rotation independently of the front wheel about a horizontal axis which is disposed through the hub of said front wheel; and said drive means being provided with foot pedal cranks, and said drive and driven means being adapted to be engaged by a drive coupling for driving said driven means.

Compl. specn. 11 pages.

Drg. 2 sheets.

CLASS : 53(D-E) 156230  
Int. Cl. : B 62 k 21/00.

**AN ADJUSTABLE HANDLE BAR FOR A BICYCLE.**

Applicants : T.I. CYCLES OF INDIA, 28, RAJAJI ROAD, MADRAS-600 001, TAMIL NADU.

Inventor : PITCHANDI SHANMUGHAM.

Application No. 31/Mas/82 filed February 12, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

**3 Claims**

An adjustable handle bar for a bicycle comprising a centre piece fixable to the known handle bar stem, the centre piece having two slotted extremities, each extremity having a bolt hole with adjacent pin holes; a pair of handle bar bends, one end of each of which has a bolt hole with adjacent pin holes, the said ends being insertable into the slotted extremities; a pair of locking pin members insertable over bolts passing through the bolt-holes, whereby the handle bar bends are movable into the desired position determined by the alignment of the pin holes on the extremities and ends, and thereafter lockable by engagement of the locking pin members with the aligned pin holes; and a pair of knobs for threadedly engaging with the bolts and fastening the locking pin members in place.

Compl. : 6 pages.

Drg. 2 sheets.

Ind. CLASS : 32F,b, 55D.

156231

Ind. CLASS : 32F b, 55D 2

156231

Int. Cl. : C 07 d-51/78, A 01 n-9/00.

**Title AN IMPROVED PROCESS FOR PREPARING 3, 4-DIHYDROQUINOXALINE-2(1H) ONES.**

Applicant : SUDARSHAN CHEMICAL INDUSTRIES LTD, 162, WELLESLEY ROAD, SANGAM BRIDGE, PUNE-411 001, MAHARASHTRA STATE, INDIA.

Inventor : DR. ABRAHAM THOMAS.

Application No. 264/Bom/1982 filed on October 11, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Bombay Branch.

Patents  
Patent  
Branch, 1972),  
Rules  
Office, Bombay  
Bombay-400013.

1 Claim

An improved process for preparing 3, 4-dihydroquinoxaline-2(1H) ones, of Formula 'A' shown in Fig. 1

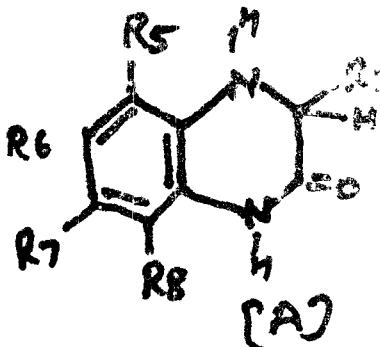


FIG-1

of the accompanying drawing wherein R<sub>5</sub>, R<sub>5</sub>', R<sub>6</sub>, R<sub>7</sub> and R<sub>8</sub> stand for hydrogen in 3, 4-dihydroquinoxaline-2(1H) one and in substituted ones where R<sub>5</sub>, R<sub>5</sub>', R<sub>6</sub>, R<sub>7</sub> and R<sub>8</sub> stand for hydrogen unless otherwise specified as methyl, ethyl, phenyl, chlorine, bromine and carboxylic acid group; from o-phenylene diamine represented by Formula 'C' of Fig. 3

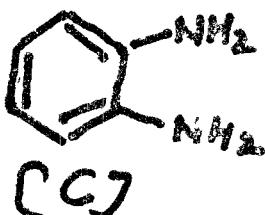


FIG-3

or its substitutes containing the R<sub>5</sub>, R<sub>6</sub>, R<sub>7</sub> and R<sub>8</sub> having the same meaning as hereinabove defined, the said process comprising reacting the said o-phenylene diamine with a solution of alpha-halo acid such as monochloro acetic acid partly neutralised to pH 4 to 6 and heating the said reaction mixture at temperature ranging from 40 to 90°C preferably at 70°C during a period ranging from 2 to 9 hours characterised in that the said reaction is carried out in the presence of a catalyst such as the acetate salt of a heavy metal like barium or lead and the reaction being further allowed to continue for a period ranging from 2 to 4 hours after which the product is separated by neutralisation of the reaction mixture with soda ash to pH 7 and by salting out by addition of sodium sulphate to obtain desired product of Formula 'A' as shown in Fig. 1 of the accompanying drawing.

Compl. specn. 7 pages.

Drg. 1 sheet.

Ind. Cl. . . . . 55D<sub>2</sub> 156232

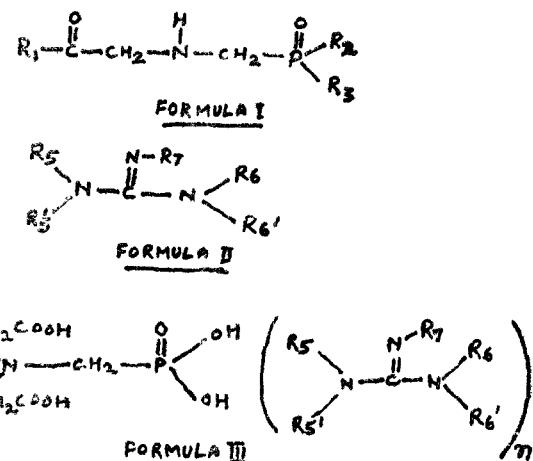
Int. Cl. . . . . A01n-9/36, C07C-101/06, C07f-9/38

A PROCESS FOR THE PREPARATION OF N-PHOSPHONOMETHYLGLYCINE IMINOUREA DERIVATIVES.

Applicant . . . . . GESHURI LABORATORIES LIMITED, AN ISRAELI COMPANY, HAVING OFFICES AT INDUSTRIAL ZONE, TEL-MOND, ISRAEL.

Vendor . . . . . DR. IZHAK BAKEL.

Application No. . . . . 57/BOM/1983 Filed on Feb. 21, 1983. Appropriate Office for Opposition Proceedings (Rule 4)



1 Claims

A Process for preparing N-phosphonomethylglycine iminourea derivatives of the general formula I of the accompanying drawings, wherein R<sub>1</sub>, R<sub>2</sub> and R<sub>3</sub> are independently selected from -OH and -OR<sub>4</sub> wherein R<sub>4</sub> is a salt forming cation iminourea derivative of the general formula II of the accompanying drawings, Wherein R<sub>5</sub>, R<sub>5</sub>', R<sub>6</sub>, R<sub>6</sub>', and R<sub>7</sub> are independently selected from H, NH<sub>2</sub>, CH<sub>2</sub>, OH, -NH<sub>2</sub>-NH<sub>2</sub>, a nitrogroup or an aryl, tolyl, cycloalkyl or straight or branched chain alkyl or alkenyl group optionally substituted by hydroxy or halogen, or an alkylaryl group, provided that

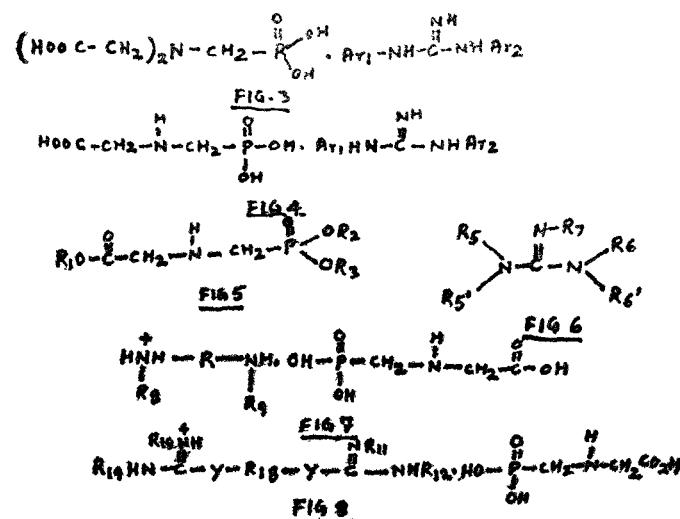
- at least one but no more than two of R<sub>1</sub>, R<sub>2</sub> or R<sub>3</sub> OR<sub>4</sub>;
- no more than two R<sub>5</sub>, R<sub>5</sub>', R<sub>6</sub>, R<sub>6</sub>', are aryl or substituted aryl, and
- no more than one of R<sub>5</sub>, R<sub>5</sub>', R<sub>6</sub>, R<sub>6</sub>', and R<sub>7</sub> is CH<sub>2</sub> OH,

which process comprises forming an admixture of water, an oxidizing agent as herein defined and an N-phosphonomethyl iminodiacetic acid iminourea salt of the general formula III as shown in the accompanying drawings, wherein R<sub>5</sub>, R<sub>5</sub>', R<sub>6</sub>, R<sub>6</sub>', and R<sub>7</sub> are as defined above and "n" is 1 or 2 and heating said admixture to a temperature at which said oxidizing agent and said iminourea salt react in the presence of a catalyst consisting essentially of activated carbon to produce the product of formula I of the accompanying drawings.

Comb. Specn. 22 pages, Drawing 1 sheet.

Ind. Cl.	55D <sub>2</sub>	156233
Int. Cl. . . . .	A01n-9/36 + C07c-101/06, C07f-9/38	
Title . . . . .	A PROCESS FOR PRODUCING N-PHOSPHONOMETHYLGLYCINE DERIVATIVES.	
Applicant . . . . .	GESHURI LABORATORIES LIMITED, AN ISRAELI COMPANY, HAVING OFFICE AT INDUSTRIAL ZONE, TEL-MOND, ISRAEL.	
Inventor . . . . .	DR. IZHAK BAKEL.	
Application No. . . . .	129/BOM/1983 Filed on Apr. 12, 1983 Appropriate Office for Opposition Proceedings (Rule 4) Patents Rules (1972), Patent Office, Bombay Branch.	

APP NO. 1259|Cal|81



4 Claims

A process for producing N phosphonomethylglycine derivatives of the general formula shown in figure 5, wherein: (a)  $R_1$ ,  $R_2$  and  $R_3$  are independently selected from hydrogen and  $-OR_4$  where  $R_4$  is a salt forming cation iminourea derivative of the general formula shown in figure 6; wherein  $R_5$ ,  $R_5$ ,  $R_6$ ,  $R_6$ , and  $R_7$  are independently selected from H,  $NH_2$ ,  $CH_2OH$ ,  $NH_2-NH_2$ , or an aryl, cycloalkyl or straight or branched chain alkyl or alkenyl group optionally substituted by hydroxy or halogen, or an alkylaryl group provided that

1. at least one but no more than two of  $R_1$ ,  $R_2$  or  $R_3$  are  $OR_4$ ;
2. no more than one  $R_5$ ,  $R_5$ ,  $R_6$ ,  $R_6$ , are aryl or substituted aryl; and
3. no more than one of  $R_5$ ,  $R_5$ ,  $R_6$ ,  $R_6$ , and  $R_7$  is  $CH_2OH$ ;
- (b)  $R_1$ ,  $R_2$  and  $R_3$  are independently selected from hydrogen and  $R^{16}$  wherein  $R^{16}$  is a salt-forming cation selected from the groups consisting of cations of organic ammonium salts selected from primary-, secondary-and tertiary-alkyl, none of these having more than two amino groups; and heterocyclic amines provided that no more than two of  $R_1$ ,  $R_2$  and  $R_3$  are  $-R^{16}$ ; or (c)  $R_1$  and  $R_2$  are hydrogen and  $R_3$  is  $R^{17}$  wherein  $R^{17}$  is a salt forming cation of the formula shown in figure 7; wherein  $R$  is selected from the group consisting of  $C_2-C_{12}$  straight or branched chain alkyne radicals and  $R_8$  and  $R_9$  are each independently H or a  $C_1-C_4$  alkyl group; or (d)  $R_1$  and  $R_2$  are H and  $R_3$  is a salt forming cation of the general formula shown in figure 8; wherein Y is N,  $R_{18}$  is a straight or branched chain alkyne radical having 1-12 carbon atoms and  $R_{19}$ ,  $R_{11}$ ,  $R_{12}$  and  $R_{10}$  are each independently H, alkyl, phenyl or allyl provided that only one of  $R_{19}$  and  $R_{10}$  is alkyl, allyl or phenyl and only one of  $R_{11}$  and  $R_{12}$  is alkyl allyl of phenyl; said process comprising oxidizing and aryl substituted iminourea salt of N-phosphonomethylglycine derivatives of the

general formula shown in figure 3 wherein  $A^{r_1}$  and  $A^{r_2}$  are each independently selected from the group consisting of phenyl, alkylphenyl and halophenyl by oxidizing agents such as herein defined in the presence of catalyst such as herein defined to form a N-phosphonomethylglycine iminourea salt of the general formula shown in figure 4 and then reacting said salt of formula in figure 4 with the appropriate amine, iminourea, diamine or diiminourea having a molecular weight below 600 and a pKa above 10 in aqueous solution and separating the resulting water soluble N-phosphonomethylglycine derivatives from the resulting water insoluble aryl iminourea.

Comp. specn. 21 pages, Drawings 2 sheets.

CLASS. 195-D.

156234.

Int. Cl. F 27 b 1|10.

A ROTARY VALVE ADAPTED TO BE USED IN REGULATING THE GRAVITY FLOW OF A GRANULAR MATERIAL.

4-87 GI/85

Applicant : HYLSA, S.A., OF APDO, POSTAL 998 MONTERREY, N. L. MEXICO.

Inventors : 1. PATRICK WILLIAM MACKAY,  
2. GILBERTO GUERRA GARCIA.

Application No. 1259|Cal|81 filed November 13, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

8 Claims.

A rotary valve to be used in regulating the gravity flow of a friable granular material, said valve comprising in combination a casing having inlet and outlet conduits connected to the upper and lower portions thereof, said inlet conduit being open to permit vertical flow of said friable granular material therethrough, and a generally cylindrical inner wall; a generally cylindrical rotor disposed within said casing and mounted for rotation about a horizontal axis therein, said rotor having a ring of pockets disposed thereon at least some of which are at least partially open to receive particles of the friable material received from the inlet conduit and to carry them to the outlet conduit, and a baffle mounted in the interior of the casing against one side of the rotor; the improvement wherein, in order to permit transfer of said friable particles by said rotor certain ones of said pockets of the rotor are at least partly closed off by arcuate members extending circumferentially from radial walls of said rotor pockets, said arcuate members supporting at least a portion of the weight of said friable granular material when the rotor is rotated to bring such members under the inlet conduit in that a positive clearance is provided between the radially outermost extent of said rotor, as defined by said arcuate members, and the cylindrical inner wall of the casing throughout the extent of the down-turning side of the rotor from the inlet conduit to the outlet conduit; and in that said baffle is provided on the up-turning side of the rotor.

Compl. Specn. 13 pages.

Drgs. 4 sheets.

CLASS. 85-H; 141-E.

156235.

Int. Cl. C 22 b 1|00; F 27 b 21|00.

METHOD OF AND APPARATUS FOR PRODUCING SINTERED MATERIAL.

Applicant : F. L. SMIDTH & CO. A/S., OF 77 VIGERS-LEV ALLE, DK-2500 VALBY, COPENHAGEN, DENMARK.

Inventor : 1. HANS BRUN KNUDSEN.

Application No. 1277|Cal|81 filed November 17, 1981.

Convention dated 17th November, 1980 (8036836) U.K.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

9 Claims.

Apparatus for producing sintered material whereby a pulverulent raw material suspended in a gas is heated to the sintering temperature outside a reaction chamber, characterized in comprising

a cylindrical member rotatable around an axis slightly inclined to the horizontal and provided with stationary end walls and a rotary drive defining a cylindrical reaction chamber;

a suspension inlet duct connected to the upper end of the reaction chamber and placed in a plane substantially parallel to the tangential plane of that part of the cylindrical wall of the reaction chamber which is closest to the suspension exit end of the suspension inlet duct;

a gas outlet duct connected to one end of the reaction chamber; and

an outlet for the thermally treated material at the lower end of the reaction chamber.

Compl. Specn. 23 pages.

Drgs. 6 sheets.

CLASS. 32-E.

156236.

Int. Cl. C 08 f 3|30.

## IMPROVED PROCESS FOR THE SUSPENSION POLYMERIZATION OF VINYL MONOMERS.

Applicant : THE B.F. GOODRICH COMPANY, 277 PARK AVENUE, NEW YORK, NEW YORK 10017, UNITED STATES OF AMERICA.

Inventor : 1. DONALD ELIAS WHITE.

Application No. 321|Cal|82 filed March 22, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 17 Claims.

An improved process for the suspension polymerization of a vinyl monomer or monomers in an aqueous medium in the presence of a dispersing agent(s) as hereinbefore described and a monomer-soluble polymerization initiator as hereinbefore described, with agitation and primary cooling in a polymerization vessel, the improvement comprising mounting a reflux condenser on said polymerization vessel, said condenser being open to the vessel throughout the entire polymerization reaction, polymerizing said monomer or monomers by maintaining the reaction mixture at a temperature in the range of from 40°C to 80°C by circulating liquids such as water, brine and like, through a jacketed part of the vessel, and continuously adding to the reaction mixture during the reaction from 0.003% to 0.5% by weight, based on the weight of said monomer or monomers, of a nonionic surface active agent having an HLB in the range of 9 to 16, as hereinbefore stated, whereby splashing of the reaction mixture and polymer building in said condenser are eliminated.

Compl. Specn. 19 pages.

Drgs. Nil.

CLASS. 97-A &amp; F.

156237.

Int. Cl. H 05 b 7|18.

## FURNACE VALVE.

Applicant : SIDDONS INDUSTRIES LIMITED, OF RESEARCH ROAD, POORAKA, IN THE STATE OF SOUTH AUSTRALIA, AUSTRALIA.

Inventor : 1. MICHAEL SIDDALL.

Application No. 331|Cal|82 filed March 24, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 10 Claims.

A valve for controlling the rate of discharge of melt from an arc-furnace, comprising

a water cooled sleeve having an inner tubular wall and an outer wall, a water cooling space between the inner and outer walls, and conduit connection means forming inlet and outlet ports to said water cooling space,

a carbonaceous member carried by the sleeve and having a flow passage extending therethrough, and

a shutter adapted to move across the outer face of said carbonaceous member to control the effective discharge area of said flow passage, and

guide means for controlling the movement of the said shutter.

Compl. Specn. 12 pgs.

Drgs. 4 sheets.

CLASS : 172-B.

156238

Int. Cl. : D 01 h 1|38.

## METHOD AND DEVICE FOR WINDING A NEWLY JOINED THREAD ONTO A TUBE NEWLY INSERTED INTO A WINDING DEVICE.

Applicant : SCHUBERT &amp; SALZER MASCHINENFABRIK AKTIENGESELLSCHAFT, OF FRIEDRICH EBERT-STRASSE 84.8070, INGOLSTADT, GERMANY.

Inventors : 1 EDMUND SCHUETTER, 2. WALTER MAYER, 3, EUGEN HINI, 4, FRICH BOEK, 5 KURT LOVAS.

Application No. 694|Cal|82 filed June 16, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 23 Claims

A method of winding up a newly joined thread onto a tube newly inserted into a winding device on an open-end spinning device, wherein, before the beginning of the bobbin build-up, the said newly joined thread with the thread join is led off, whereupon the thread section containing the join is separated from the thread and then the thread subsequently delivered from the open-end spinning device is transferred to the said newly inserted tube.

Compl. Specn. 34 pages.

Drgs. 3 sheets.

## OPPOSITION PROCEEDINGS

An opposition has been entered by Maschinenfabrik Beata to the grant of a Patent on application No. 154743 made by Redler Conveyors Limited.

## PATENTS SEALED

152750 152758 152759 152782 152841 152889 152910 152947  
153066 153077 153128 153131 153132 153140 153154 153188  
153219 153265 153434 154007

## RENEWAL FEE PAID

126538 127255 135602 135615 135692 135735 135741 135932  
136052 136057 136083 136133 136134 136142 136321 136623  
136760 136984 137120 137384 138370 138457 138814 138892  
138918 139008 139073 139424 139431 139602 139778 139863  
139864 139865 140022 140119 140821 140968 141086 141354  
141529 141811 141883 142009 142081 152214 142222 142317  
142422 142523 142874 143174 143292 143294 143295 143501  
143507 143523 143562 143571 143897 144048 144053 144076  
144140 144498 144896 145196 145199 145234 145327 145356  
145500 145813 145830 146040 146227 146305 146324 146351  
146916 147053 147142 147475 147557 147611 147774 148214  
148592 148924 149035 149046 149270 149446 149585 149597  
149662 149786 149920 149926 150051 150081 150186 150219  
150232 150425 150558 150748 150954 151044 151045 151134  
151178 151240 151259 151295 151312 151457 151519 151604  
151772 151920 151988 152110 152142 152165 152377 152378  
152633

## CESSATION OF PATENTS

152140 119271 119278 119296 119302 119314 119318 119332  
119339 119346 119356 119386 119394 119395 119412 119417  
119418 119424 119435 119436 119450 119455 119456 119494  
119509 119543 119546 119549 119556 119562 119578 119582  
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119636 119637 119663 119676 119677 119678 119688 119733  
119776 119778 119783

## RESTORATION PROCEEDINGS

(1)

Notice is hereby given that an application for restoration of Patent No. 148273 dated the 3rd July, 1976 made by Council of Scientific & Industrial Research on the 21st March, 1984 and notified in the Gazette of India, Part III, Section 2 dated the 11th August, 1984 has been allowed and the said patent restored.

(2)

Notice is hereby given that an application for restoration of Patent No. 149378 dated the 28th May, 1979 made by Mrs. Prabha Sridhar on the 12th June, 1984 and notified in the Gazette of India, Part III, Section 2 dated the 17th Nov., 1984 has been allowed and the said patent restored.

(3)

Notice is hereby given that an application for restoration of Patent No. 149379 dated the 31st May, 1979 made by Mrs. Prabha Sridhar on the 12th June, 1984 and notified in the Gazette of India, Part III, Section 2 dated the 17th Nov., 1984 has been allowed and the said patent restored.

(4)

Notice is hereby given that an application for restoration of Patent No. 194634 dated the 4th August, 1980 made by Mrs. Prabha Sridhar on the 12th June, 1984 and notified in the Gazette of India, Part III, Section 2 dated the 17th Nov., 1984 has been allowed and the said patent restored.

(5)

Notice is hereby given that an application for restoration of Patent No. 151183 dated the 23rd September, 1980 made by Mrs. Prabha Sridhar on the 12th June, 1984 and notified in the Gazette of India, Part III, Section 2 dated the 17th Nov., 1984 has been allowed and the said patent restored.

## REGISTRATION OF DESIGNS

The following designs have been registered. They are not open to inspection for a period of two years from the date of registration except as provided for in Section 50 of the Designs Act, 1911.

The date shown in the each entry is the date of registration of the design included in the entry.

Class. 1. No. 154771. Union Carbide India Limited, an Indian Company of 1, Middleton Street, Calcutta-700 071, West Bengal, India. "Flashlight 1". 31st August, 1984.

Class. 1. No. 154773. Union Carbide India Limited, an Indian Company of 1, Middleton Street, Calcutta-700 071, West Bengal, India. "Flashlight 7". 31st August, 1984.

Class. 1. No. 154775. Union Carbide India Limited, an Indian Company of 1, Middleton Street, Calcutta-700 071, West Bengal, India. "Flashlight 9". 31st August, 1984.

Class. 1. No. 154641. KayVybin Corporation, F-5, Prashant, 139 Senapati Bapat Marg, Mahim, Bombay-400 016, State of Maharashtra, India. "A Lubricator". 27th July, 1984.

Class. 1. No. 155152. Union Carbide India Limited, an Indian Company of 1, Middleton Street, Calcutta-700 071, West Bengal, India. "Flashlight". 10th December, 1984.

Class. 1. No. 155352. Panchmal Industrial Corporation, 10-A Puribai Smruti Building, Opposite Railway Station, Ghatkopar (West) City of Bombay 400 086, State

of Maharashtra, India an Indian Partnership Firm. "Swinging Toy". 1st February, 1985.

Class. 1. No. 154712. Metro Enterprises, a partnership firm duly registered under the Indian Partnership Act of 1932 as well as registered under the Indian Registration Act of 1908, whose address is, 16, Guru Amar Dass Colony, Outside Chatiwind Gate, Amritsar-143006 (Punjab State) India. "The Show-Ring of the Electric-Fan-Guard". 18th August, 1984.

Class. 1. No. 155325. Keshavji Ravji & Company, also trading as Venkateswara Stainless Steel & Wire Industries, 305 Mint Street, City of Madras, State of Tamil Nadu, India, an Indian Partnership Firm. "Tray". 24th January, 1985.

Class. 1. No. 154878. Bansi Engineering Corporation, Bhakti-nagar, Godown Road, Opposite Ambika Weigh Bridge, Rajkot-360 002, Gujarat State, an Indian Partnership Firm. "Wick Stove". 24th September, 1984.

Class. 3. No. 154683. Sharp L.P.G. (P) Ltd., 3rd floor, No. 312, 59, Rani Jhansi Marg, New Delhi-110055, Indian Company. "Petromax cum gas stove". 10th August, 1984.

Class. 3. No. 155173. Comfy Shoemakers Private Limited, 295 SIDCO Industrial Estate, Ambattur, Madras-600 98, Tamil Nadu, India, a company duly organised and existing under the laws of the Union of India. "Soles for footwear". 15th December, 1985.

Class. 3. No. 154576. Rotpunkt Dr. Anso Zimmermann, of D-6434 Niederaula, West Germany. "an Insulating Jug". Reciprocity date is 25th January, 1984. (U.K.).

Class. 3. No. 154577. Rotpunkt Dr. Anso Zimmermann, of D-6434 Niederaula, West Germany. "an Insulating Jug". Reciprocity date is 25th January, 1984. (U.K.).

Class. 3. No. 154578. Rotpunkt Dr. Anso Zimmermann, of D-6434 Niederaula, West Germany. "an Insulating Jug". Reciprocity date is 25th January, 1984. (U.K.).

Class. 3. No. 154579. Rotpunkt Dr. Anso Zimmermann, of D-6434 Niederaula, West Germany. "an Insulating Jug". Reciprocity date is 25th January, 1984. (U.K.).

Class. 3. No. 154580. Rotpunkt Dr. Anso Zimmermann, of D-6434 Niederaula, West Germany. "an Insulating Jug". Reciprocity date is 25th January, 1984. (U.K.).

Class. 3. No. 154581. Rotpunkt Dr. Anso Zimmermann, of D-6434 Niederaula, West Germany. "an Insulating Jug". Reciprocity date is 25th January, 1984. (U.K.).

Class. 3. No. 154582. Rotpunkt Dr. Anso Zimmermann, of D-6434 Niederaula, West Germany, an "Insulating Jug". Reciprocity date is 25th January, 1984. (U.K.).

Class. 3. No. 155158. Guru Pencil Industries Pvt. Ltd., 8, Shri Ram Road, Civil Lines, Delhi-110054, India, a Private Limited Company, registered under the Indian Companies Act, 1956. "Pencils". 11th December, 1984.

Class. 3. No. 154991. Samsonite Corporation, a corporation organized under the laws of the State of Colorado, U.S.A., of 11200 East 45th Avenue, Denver, Colorado 80239, U.S.A. a 'Beauty Case'. Reciprocity date is 6th September, 1984. (U.K.).

Class. 3. No. 155060 Reckitt Colman of India Limited, of 41 Chowringhee Road, Calcutta-700071, State of West Bengal, India, a company incorporated in India. "Bottle". 15th November, 1984.

Class. 3. No. 155337. Plasticrafts, 5, Mehta Building, 26, Calicut Street, Ballard Estate, Bombay-400038, Maharashtra, an Indian Sole proprietary firm. "Jar". 28th January, 1985.

Class. 3. No. 155322. Rajendra Sayani, Indian National, of 94 Vitadwhadi, Bombay-400 002, Maharashtra State, India. "Crate". 23rd January, 1985.

Class. 3. No. 155436. Sureka International of 77/79, Netaji Subhas Road (4th floor), Cal-700001 (West Bengal), India, a Partnership Concern. "Electric Mosquito Destroyer". 27th February, 1985.

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and Trade marks

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Information Officer  
for Joint Controller of Patents & Designs